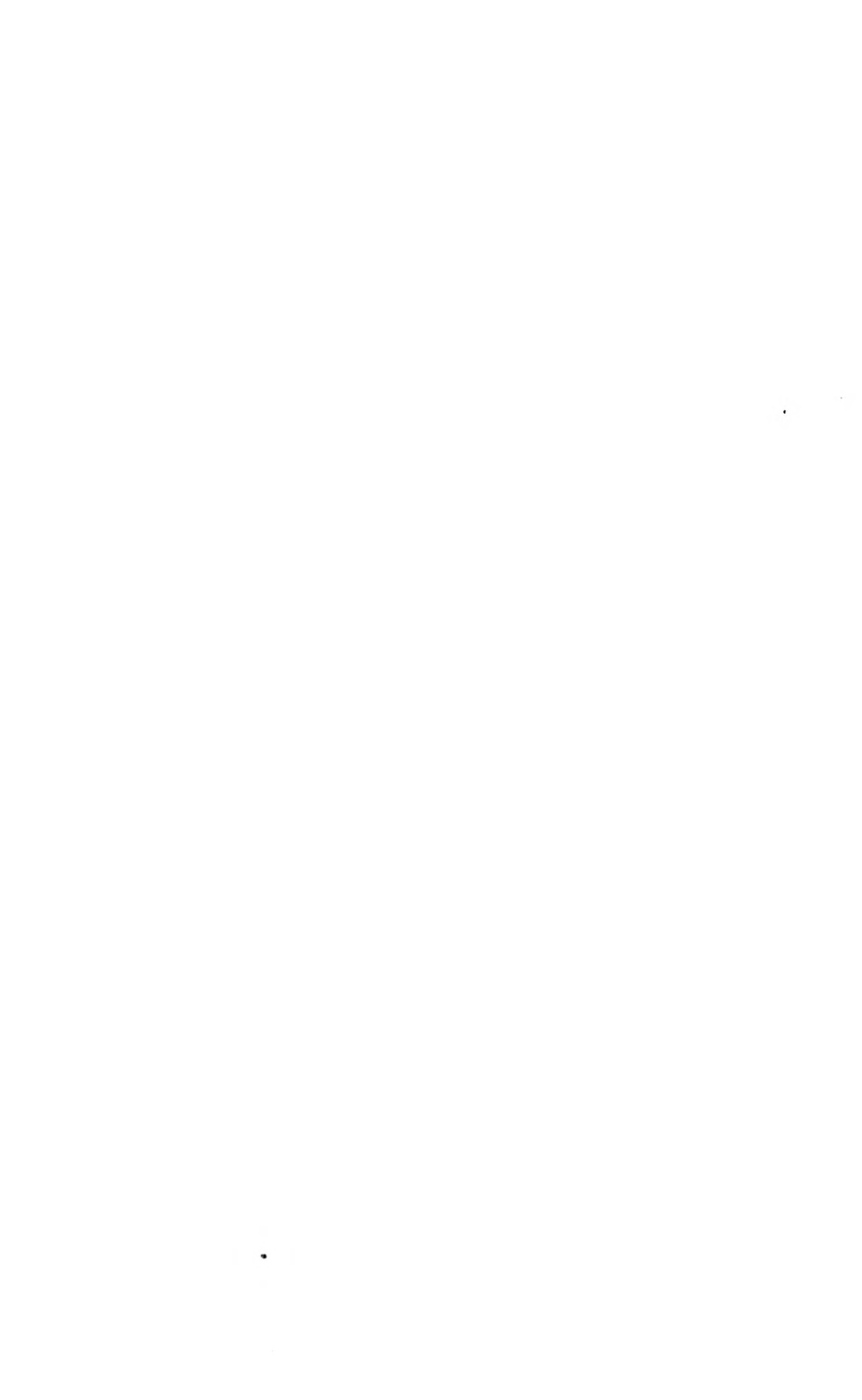


Year Book  
OF  
THE NATIONAL ASSOCIATION OF  
COTTON MANUFACTURERS  
1928

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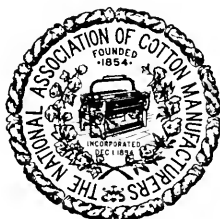


G. EDWARD BUXTON

President, 1927-28

**Year Book**  
of  
**THE NATIONAL ASSOCIATION OF  
COTTON MANUFACTURERS**

**1928**



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**BOSTON**

**MASSACHUSETTS**

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**Year Book**  
**of**  
**THE NATIONAL ASSOCIATION OF**  
**COTTON MANUFACTURERS**

**1928**





## FOREWORD

---

The National Association of Cotton Manufacturers presents herewith its Year Book for 1928. Every effort has been made to incorporate in this publication all available data which our headquarters staff has considered of possible use to the industry. If our membership approves this endeavor, full credit must be given for the faithful supervision of our Secretary, Mr. Russell T. Fisher. Your Board of Government will be grateful for any helpful criticism or suggestions.

G. EDWARD BUXTON,  
*President.*

## PREFACE

---

The scope of the material presented in this, the eleventh edition of the Year Book of The National Association of Cotton Manufacturers, is essentially the same as in the last several editions. The statistical tables have been brought up to date and several new tables added on request from some of the members. The Technical Section has been enlarged to include more information that has become available.

The attention of the user of this book is called to the different periods of time for recording data. The United States and most foreign countries use the cotton year, August 1 to July 31, for figures on raw cotton, and the calendar year, January 1 to December 31, for imports and exports, although some of the earlier United States statistics are based on the fiscal year, July 1 to June 30. A note indicates the period where figures are given that do not cover the usual periods for reporting.

Suggestions for making future editions more useful will be appreciated.

RUSSELL T. FISHER,  
*Secretary.*

# CHARTER

---

No. 6091

## Commonwealth of Massachusetts

BE IT KNOWN that whereas, EDWARD W. THOMAS, C. J. H. WOODBURY, WILLIAM J. KENT, F. M. MESSENGER, HARRY T. WHITIN, ARTHUR H. LOWE, ALBERT F. KNIGHT, ALFRED M. GOODALE, FRED C. McDUFFIE and GEORGE W. BEAN have associated themselves with the intention of forming a corporation under the name of the NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION, for the purpose of encouraging scientific investigation and experiment as to the methods of manufacturing cotton; collecting and imparting information relating to this industry; promoting social intercourse among its members; and establishing and maintaining a library of works on textiles in the city of Boston, and have complied with the provisions of the Statutes of this Commonwealth in such case made and provided, as appears from the certificate of the President, Treasurer and Directors of said corporation, duly approved by the Commissioner of Corporations, and recorded in this office.

Now, Therefore, I, WILLIAM M. OLIN, Secretary of the Commonwealth of Massachusetts, do hereby certify that said EDWARD W. THOMAS, C. J. H. WOODBURY, WILLIAM J. KENT, F. M. MESSENGER, HARRY T. WHITIN, ARTHUR H. LOWE, ALBERT F. KNIGHT, ALFRED M. GOODALE, FRED C. McDUFFIE and GEORGE W. BEAN, their associates and successors, are legally organized and established as and are hereby made an existing corporation under the name of the

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION,

with the powers, rights and privileges, and subject to the limitations, duties and restrictions which by law appertain thereto.

*Seal of the  
Commonwealth  
of  
Massachusetts* Witness my official signature hereunto subscribed, and the seal of the Commonwealth of Massachusetts hereunto affixed this first day of December, in the year of our Lord one thousand eight hundred and ninety-four.

WILLIAM M. OLIN,  
*Secretary of the Commonwealth.*

## Commonwealth of Massachusetts

(Acts of 1895, Chap. 163.)

AN ACT TO AUTHORIZE THE NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION TO HOLD ITS MEETINGS WITHOUT THE COMMONWEALTH.

*Be it enacted, etc., as follows:*

SECTION 1. The New England Cotton Manufacturers' Association is hereby authorized to hold its meetings in any state or territory of the United States and in the District of Columbia; provided, however, that its annual meeting shall be held in this Commonwealth at least once in five years.

SECTION 2. This act shall take effect upon its passage. [Approved March 23, 1895.]

---

No. 252

## Commonwealth of Massachusetts

BE IT KNOWN that whereas

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

a corporation organized under the laws of this Commonwealth and subject to the provisions of chapter one hundred and twenty-five of the Revised Laws has complied with the provisions of chapter one hundred and nine of the Revised Laws, as appears from the certified copy of the order of the Commissioner of Corporations, authorizing said corporation to change its name and adopt the name of

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS, and the certificate of the Vice President and Acting President, Treasurer and Directors of said corporation duly filed in this office pursuant to the provisions of section ten of the aforesaid chapter one hundred and nine of the Revised Laws.

NOW, THEREFORE, I, William M. Olin, Secretary of the Commonwealth of Massachusetts, DO HEREBY CERTIFY, that the name which said corporation shall bear is

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS, which shall hereafter be its legal name.

*Seal of the Commonwealth of Massachusetts* WITNESS my official signature hereunto subscribed, and the Great Seal of the Commonwealth of Massachusetts hereunto affixed this twenty-fifth day of June in the year of our Lord one thousand nine hundred and six.

WM. M. OLIN,  
*Secretary of the Commonwealth.*

# THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

SUCCESSOR TO  
NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

---

FOUNDED 1854  
INCORPORATED DECEMBER 1, 1894

---

## CONSTITUTION AND BY-LAWS (Revised, November 1, 1923)

---

### I NAME

The name is THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS.

### II QUALIFICATIONS OF MEMBERS

#### *Active Members*

1. Any person who is actively engaged as President, Treasurer, Agent, Superintendent, or Manager in the manufacture, printing, or finishing of cottons shall be eligible for active membership.

#### *Associate Members*

2. Any person engaged in the manufacture of cotton or cotton fabrics, or the manufacture of textile machinery, or industries kindred to the cotton manufacture, shall be eligible for associate membership.

3. This class of membership shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote except by permission from the Board of Government or by vote of the Association.

#### *Sustaining Members*

4. Any firm or corporation actively engaged in manufacturing, bleaching, printing, or finishing of cotton, or any firm or corporation actively engaged in a business contributory to the cotton manufacturing industry, shall be eligible for sustaining membership.

5. The executive head of a firm or corporation, so elected, or any duly authorized representative thereof, shall represent its sustaining membership in the Association.

6. Sustaining members shall enjoy the full privilege of active membership and in addition shall be entitled to such direct service as the Association may be able to render by its technical and statistical or other departments under such regulations as the Board of Government may prescribe.

#### *Honorary Members*

7. Honorary members shall be recommended by the Board of Government and may be elected at any duly called meeting of the Association. They shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote. No person actively engaged in cotton manufacture shall be eligible to such membership.

#### *Life Members*

8. Any active or associate member by the single payment of a sum equal to ten times the amount of his annual dues, shall be exempt from all future payment of dues and shall become a life member and shall have all the privileges to which his class of membership is entitled.

9. The minimum dues for a life member shall be one hundred dollars.

10. All moneys thus paid shall be invested as a permanent fund by the Treasurer, acting under the direction of the Board of Government, of which the income only shall be subject to appropriation for current expenses.

#### *Technical Members*

11. Any person over twenty-five years of age (except those designated under Article II, Sections 1 and 2) engaged in the manufacture, bleaching, printing, finishing, or distribution of cotton products; or in any industry contributory to cotton manufacture, including the manufacture and installation of cotton machinery; or who is employed in a school or college giving instruction in the manufacture of cotton goods and accessory industries; or by a technical laboratory or textile engineering organization, shall be eligible to technical membership.

#### *Junior Technical Members*

12. Any junior or senior student of a school or college giving instruction in textile manufacture, or any employee, under twenty-five years of age and not a textile school graduate, engaged in the supervision of cotton manufacture, bleaching, printing, or finishing, shall be eligible as a junior technical member. A student junior technical member upon graduation, and an employee junior technical member upon attaining his twenty-fifth birthday, shall automatically become a technical member of the Association and

shall be subject to the same conditions and receive the same privileges as other technical members.

13. It shall be the duty of all members of the Association to make returns to the Secretary of such statistics as may be called for by him, under the direction of any committee duly appointed for the collection of statistics, when not incompatible with private interests.

### III

#### OFFICERS

1. The officers shall be a President, two Vice Presidents, fifteen Directors, a Treasurer, and a Secretary.

2. The PRESIDENT, and in his absence a VICE PRESIDENT, shall preside at all meetings of the Association and of the Board of Government.

3. The TREASURER, or a deputy whom he may appoint with the approval of the Board of Government, shall collect all moneys due the Association and disburse the same in accordance with the action of the Board of Government. He shall keep an accurate account of all receipts and expenditures and present a full account of the finances of the Association at the annual meeting in each year, or whenever called for by the Board of Government. He shall act as trustee of the permanent funds of the Association.

4. The SECRETARY shall attend all meetings of the Association and the Board of Government and keep accurate records of their doings. In the absence of the Secretary at any meeting, a Secretary pro tem may be appointed by the presiding officer, who shall be sworn to do all things, while in office, required of the Secretary.

5. Any officer who shall unreasonably absent himself from three consecutive meetings of the Board of Government of which he is a member, or shall otherwise neglect or refuse to perform the duties of his office, may be removed from office at any regular meeting of the Board of Government by a vote of a majority of the members present and voting thereon, a notice of such proposed action to be sent to him by mail at least one week previous to the meeting.

### IV

#### BOARD OF GOVERNMENT

1. The President, Vice Presidents, and Directors, in addition to the Presidents who have held office during six years previous to the annual meeting of any year, shall constitute a BOARD OF GOVERNMENT and have under its care and direction all matters pertaining to the management of the Association.

2. Meetings of the Board may be called by the President at such time and place as he may deem expedient, giving each member a written or printed notice of the same at least five days before the day of the meeting.

3. At the first meeting of the Board after the Annual Meeting, a Treasurer, a Secretary, and an Auditor of Accounts for the year

ensuing shall be elected. The Board shall also fix the amount of the compensation of the Secretary at this meeting.

4. All vacancies in the Board, occasioned by death, resignation, or removal, shall be filled by the Board; and the persons so elected shall hold their offices until the next Annual Meeting, except as provided in Article III, Section 5.

5. At the first meeting of the Board, or as soon after as practical, the President, with its approval, shall appoint from its membership an Executive Committee of seven, which shall exercise authority in such matters as may be delegated to it by the Board. The President shall be Chairman of this Committee.

6. The President shall appoint from the general membership of the Association such other committees as in his judgment can most effectively serve its needs and interests. All committees so appointed shall report their conclusions, whenever the particular matter dealt with involves the policy of the Association or the expenditure of money, to the Board of Government.

7. The Auditor shall examine the accounts of the Treasurer annually, and report at the annual meeting his findings.

8. No committee or member thereof shall make public any matter in connection with the work of the Association without the approval of the Board of Government.

9. Seven members shall constitute a quorum for the transaction of business.

## V

### MEETINGS

1. The Annual Meeting of the Association shall be held the last Wednesday in October, or at such other time and at such hour and place as the Board of Government shall appoint.

2. The Board of Government shall arrange for a Semi-Annual Meeting of the Association to be held in April or at such other time and at such hour and place as the Board of Government shall appoint.

3. Special meetings shall be called by the Board of Government whenever it deems it expedient or upon written application of any fifty members to the Secretary.

4. All meetings of the members of the Association shall be in pursuance of a written or printed notice, addressed to each member, with the name of the President, or Secretary, attached thereto, and deposited in the Post Office ten days at least before the day of meeting, specifying the time and place of meeting; and at all such meetings twenty-five members shall constitute a quorum for the transaction of business.

## VI

### ELECTIONS

1. At each Annual Meeting there shall be chosen by ballot, a President, a first Vice President, a second Vice President, and five Directors; the President and Vice Presidents to serve one year and

the five Directors for terms of three years unless sooner removed, as hereinbefore provided.

2. No Director, elected as such, who has to his credit six years of consecutive service, shall be eligible for re-election until one year after the completion of such service.

3. The officers shall hold their respective offices until their successors shall be chosen and accept their positions.

## VII

### ELECTION OF MEMBERS

All nominations for membership of any class in the Association shall be made in writing and presented to the Board of Government for action thereon. Upon favorable action by the Board of Government the nominee shall become a member upon the payment, within thirty days, of the initiation fee and dues of his class.

## VIII

### ENTRANCE FEES, DUES AND ASSESSMENTS

1. The admission fee for active members shall be ten dollars and the payment of annual dues not exceeding ten dollars.

2. The admission fee for associate members shall be twenty-five dollars and the annual assessment shall be double the sum annually voted for active members.

3. The annual assessment for sustaining members shall be at the rate of twenty-five cents for each one thousand dollars of yearly payroll paid by such firm or corporation during the previous year in all its departments actively engaged in the manufacture of cotton goods or in contributory industries; provided that no annual assessment shall be less than fifty or more than five hundred dollars. There shall be no initiation fee for sustaining members.

4. Honorary members shall not be subject to payment of admission fees or assessments.

5. The admission fee for technical members shall be ten dollars and the annual dues five dollars.

6. Junior technical members shall pay no admission fee and the annual dues shall be three dollars.

7. Dues in the active, associate, technical, and junior technical membership classes shall be paid in advance on the first day of January of each year. The annual assessment for sustaining members is payable in advance upon the anniversary of such membership.

8. Any member failing to pay two successive assessments shall cease to be a member at the end of six months from the date when such second assessment shall become due.



## IX

## RESIGNATIONS

Any member may withdraw from the Association upon payment of all arrearages, first giving notice of his intention to do so, in writing, to the Secretary, and the Board of Government may accept such resignation.

## X

## SUSPENSION OR EXPULSION

Any member may be suspended or expelled for cause at any duly called meeting of the Board of Government by a two-thirds vote of the members present, provided he has been notified of the charges against him and an opportunity given him to appear in his defense.

## XI

## NATIONAL COUNCIL OF AMERICAN COTTON MANUFACTURERS

1. The Board of Government may co-operate with the American Cotton Manufacturers' Association in matters of national scope and importance through the National Council of American Cotton Manufacturers (composed of representatives of The American Cotton Manufacturers' Association and an equal number from this Association) in such manner and to such an extent as it may from time to time determine to be for the best interests of the cotton manufacturing industry, and may delegate to the Council authority to act for this Association on such matters of national importance as may be mutually agreed upon by the Boards of Government of the constituent associations.

2. The representatives of this Association in the National Council shall be the seven following: The President of the Association (ex-officio), the last three living past presidents (ex-officiis), and three others elected by the Board of Government from the sustaining membership of the Association. At the first election under this article, the Board of Government shall elect representatives to serve one, two, and three years, respectively. Thereafter one representative shall be elected each year to serve a term of three years.

3. The Board of Government, from the moneys received as dues from sustaining members, may contribute to the National Council for the support of its work at such times and in such manner as may be deemed necessary or desirable by a majority of the Board of Government.

## XII

## AMENDMENTS

Amendments to the Constitution and By-Laws may be made at any duly called meeting of the Association by a two-thirds vote; provided, notice of such proposed amendment be given in writing at a previous meeting, and also notice be given to each member by the Secretary, of the pendency of such amendment, ten days at least before any such meeting.

## BOARD OF GOVERNMENT

1928

## PRESIDENT

G. EDWARD BUXTON . . . PROVIDENCE, R. I.

## VICE PRESIDENTS

PHILIP DANA . . . WESTBROOK, ME.

ALFRED E. COLBY . . . BOSTON, MASS.

## DIRECTORS

*Term expires 1928*

C. F. BROUGHTON . . . NEW BEDFORD, MASS.

JOHN H. HOLT . . . FALL RIVER, MASS.

CHARLES E. INCHES . . . BOSTON, MASS.

JOHN A. PERKINS . . . COHOES, N. Y.

JAMES O. THOMPSON, JR. . . NEW BEDFORD, MASS.

*Term expires 1929*

S. HAROLD GREENE . . . BOSTON, MASS.

ERNEST N. HOOD . . . SALEM, MASS.

W. S. PEPPERELL . . . PROVIDENCE, R. I.

FRED W. STEELE . . . BOSTON, MASS.

DEXTER STEVENS . . . ESOMOND, R. I.

*Term expires 1930*

W. IRVING BULLARD . . . BOSTON, MASS.

JOHN L. BURTON . . . NEW BEDFORD, MASS.

B. H. BRISTOW DRAPER . . . HOPEDALE, MASS.

JOHN S. LAWRENCE . . . BOSTON, MASS.

E. KENT SWIFT . . . WHITINSVILLE, MASS.

## FORMER PRESIDENTS EX-OFFICIOIS

RUSSELL B. LOWE . . . FITCHBURG, MASS.

ROBERT AMORY . . . BOSTON, MASS.

MORGAN BUTLER . . . BOSTON, MASS.

WILLIAM B. MacCOLL . . . PAWTUCKET, R. I.

## TREASURER

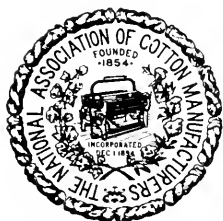
W. IRVING BULLARD . . . BOSTON, MASS.

## SECRETARY

RUSSELL T. FISHER . . . BOSTON, MASS.

STATISTICAL — TECHNICAL  
AND MEMBERSHIP

1928





# STATISTICAL

---

## FOREWORD

In preparing the Statistical Section of The National Association of Cotton Manufacturers Year Book for 1928, the Committee has made no radical changes. We have tried to give as complete a statistical picture of the industry as possible and at the same time avoid such detail as would injure the general utility of the Year Book.

We hope the members will find the Statistical Section useful. In view of the increasing interest in statistics, we particularly hope the Committee will receive suggestions for improving the usefulness of the Year Book.

CHARLES B. NICHOLS, *Chairman,*  
*Statistical Committee.*

### Acknowledgment of Co-operation

The preparation of the Statistical Section of this Year Book has been made possible by the generous co-operation of many governmental authorities in this country and abroad, and many firms and individuals in the cotton trade throughout the world. Special acknowledgment is due the Bureau of the Census and Bureau of Foreign and Domestic Commerce, especially, Textile Division, of the United States Department of Commerce; Weather Bureau, Bureau of Agricultural Economics, and Bureau of Entomology of the United States Department of Agriculture; Bureau of Labor Statistics and Women's Bureau of the United States Department of Labor; Egyptian Ministry of Agriculture; Egyptian Ministry of Finance; Indian Department of Statistics; British Board of Trade; New York Cotton Exchange; New Orleans Cotton Exchange; Liverpool Cotton Association; Alexandria General Produce Association; New York *Daily News Record*; *Textile World*; Comtelburo Ltd.'s Annual Cotton Hand Book; Shepperson's Cotton Facts; Merchants National Bank of Boston; International Federation of Master Cotton Spinners' and Manufacturers' Association; Japan Cotton Spinners' Association; Sanford & Kelley, New Bedford, Mass.; G. M. Haffards & Company, Fall River, Mass.; Frederick B. Macy & Company, New Bedford, Mass.; J. M. Prendergast & Co., Boston, Mass.; The Viscose Co., New York City, N. Y.; Silk Association of America, New York City, N. Y.; Garside Cotton Service, Boston, Mass.; Association of Cotton Textile Merchants of New York, New York City, N. Y., and the Cotton-Textile Institute, Inc., New York City, N. Y.

# American Cotton in 1927

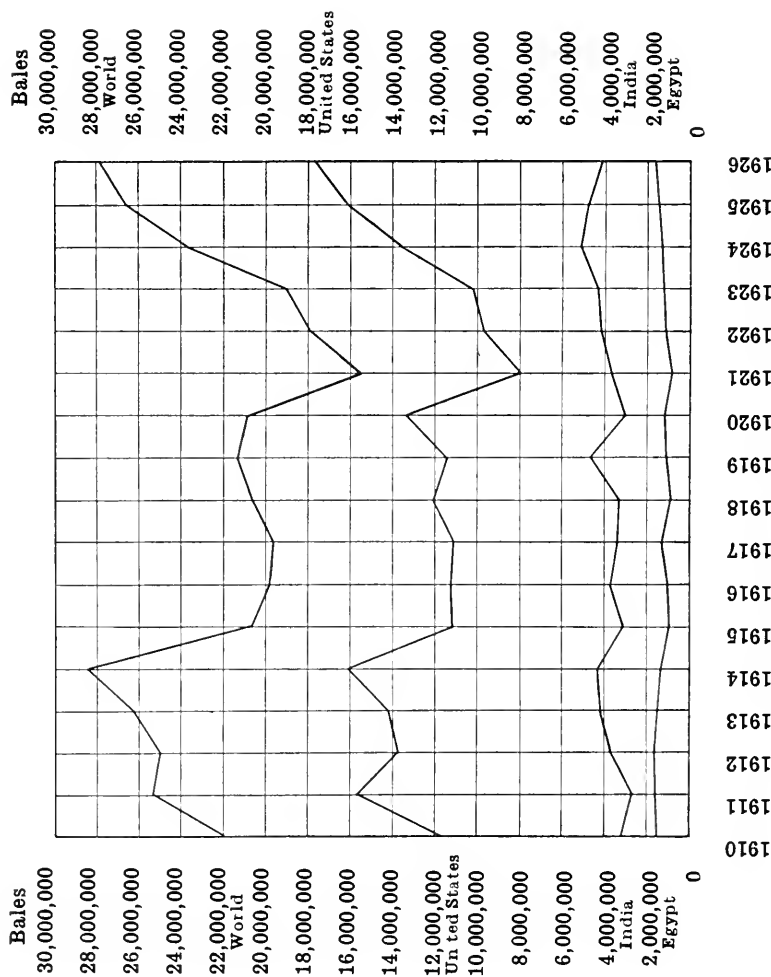
[Quantities in bales of lint cotton <sup>1</sup>

	Exports	Domestic Consumption	Spindles Active, Thousands	Spindle-Hours Operated in Millions	Per Cent of Single-shift Capacity	RANGE OF SPOT COTTON PRICES	
						Low	High
January .	1,115,792	604,584	32,634	8,558	102.3	12.80	13.70
February .	1,010,507	590,447	32,872	8,266	106.8	13.65	14.50
March .	1,129,537	694,193	32,919	9,629	109.7	14.00	14.85
April .	855,449	619,140	32,892	8,805	105.8	14.30	15.35
May .	628,132	633,024	32,907	9,002	109.0	15.45	17.05
June .	481,943	662,630	32,753	9,192	109.2	16.35	17.10
July .	389,358	569,250	32,312	8,043	99.1	17.05	18.95
August .	340,311	633,434	32,239	8,973	103.5	17.00	23.25
September	631,041	627,321	32,343	8,761	107.0	20.55	23.90
October .	1,126,509	612,935	32,498	8,705	105.3	19.90	21.80
November	999,501	625,680	32,269	8,680	107.2	19.30	21.30
December .	767,314	543,598	31,715	7,859	94.3	18.60	20.15
<i>Year.</i>	9,475,394	7,416,236	—	—	—	12.80	23.90
1926 .	9,048,312	6,683,949	32,350 <sup>2</sup>	8,082 <sup>2</sup>	95.4 <sup>2</sup>	12.15	21.25
1925 .	8,526,864	6,422,748	32,621 <sup>2</sup>	7,841 <sup>2</sup>	92.7 <sup>2</sup>	19.15	26.05
1924 .	6,794,786	5,521,662	31,109 <sup>2</sup>	6,696 <sup>2</sup>	78.3 <sup>2</sup>	22.15	35.30

<sup>1</sup> Except exports, which include linters.

<sup>2</sup> Monthly average.

## World Cotton Production



The above chart is based on the table on the following page.



## World Production of Cotton

[In bales of 478 pounds net]

Source: United States Department of Agriculture

Year	United States <sup>1</sup>	India	Russia	Egypt <sup>2</sup>	China	Brazil	Mexico	Peru	All Other Countries	Total
1910	11,609,000	3,254,000 <sup>2</sup>	1,006,000	1,555,000	3,467,000 <sup>3</sup>	297,000 <sup>4</sup>	290,000	88,000	439,000	21,915,000
1911	15,633,000	2,730,000 <sup>2</sup>	961,000	1,530,000	3,437,000 <sup>3</sup>	300,000 <sup>4</sup>	160,000	96,000	411,000	25,356,000
1912	13,763,000	3,702,000 <sup>2</sup>	916,000	1,554,000	3,931,000 <sup>3</sup>	318,000 <sup>4</sup>	210,000	112,000	507,000	25,043,000
1913	14,156,000	4,239,000 <sup>2</sup>	1,026,000	1,588,000	4,000,000 <sup>3</sup>	397,000 <sup>4</sup>	295,000	133,000	515,000	26,259,000
1914	16,135,000	4,359,000 <sup>2</sup>	1,270,000	1,537,000	4,500,000	387,000 <sup>4</sup>	108,000	129,000	462,000	28,687,000
1915	11,192,000	3,128,000 <sup>2</sup>	1,512,000	989,000	3,000,000 <sup>3</sup>	282,000	95,000	113,000	378,000	20,689,000
1916	11,450,000	3,759,000 <sup>2</sup>	1,199,000	1,048,000	1,531,000	281,000	103,000	127,000	314,000	19,845,000
1917	11,302,000	3,393,000 <sup>2</sup>	631,000	1,301,000	2,092,000	315,000	135,000	125,000	315,000	19,675,000
1918	12,011,000	3,328,000 <sup>2</sup>	161,000	999,000	3,053,000	339,000	203,000	112,000	317,000	20,613,000
1919	11,421,000	4,853,000 <sup>2</sup>	81,000	1,155,000	2,599,000	506,000	199,000	155,000	415,000	21,381,000
1920	13,410,000	3,013,000 <sup>2</sup>	58,000	1,251,000	1,883,000	370,000	188,000	161,000	508,000	20,875,000
1921	7,951,000	3,748,000 <sup>2</sup>	43,000	902,000	1,517,000	505,000	147,000	157,000	357,000	15,330,000
1922	9,729,000	4,220,000 <sup>3</sup>	55,000	1,229,000	1,360,000 <sup>3</sup>	535,000	178,000	190,000	430,000	17,926,000
1923	10,171,000	4,400,000 <sup>3</sup>	260,000	1,289,000	1,420,000 <sup>3</sup>	575,000	138,000	201,000	582,000	19,636,000
1924	13,639,000	5,100,000 <sup>3</sup>	453,000	1,450,000	1,320,000 <sup>3</sup>	605,000	280,000	200,000	789,000	23,836,000
1925	16,123,000	4,845,000 <sup>3</sup>	737,000	1,610,000	1,400,000 <sup>3</sup>	602,000	202,000	185,000	962,000	26,666,000
1926	17,755,000	4,230,000 <sup>3</sup>	738,000	1,695,000	1,335,000 <sup>3</sup>	419,000	396,000	215,000	970,000	27,813,000

<sup>1</sup> Running bales from 1922 to date.<sup>2</sup> Total Indian production.<sup>3</sup> Consists of cotton exported and cotton consumed in spinning mills.<sup>4</sup> Estimates which include production in the most important provinces where the commercial crop is grown.<sup>5</sup> Unofficial.

# World Cotton Production and Consumption

[In bales of 47½ pounds lint]

Source: United States Department of Commerce

Y <small>EAR</small>	W <small>ORLD</small> P <small>RODUCTION</small> (Bales)	C <small>ONSUMPTION</small>			P <small>ER CENT OF W<small>ORLD</small></small> T <small>OTAL CONSUMED BY</small> —		
		W <small>ORLD</small> (Bales)	E <small>UROPEAN</small> (Bales)	U <small>NITED STATES</small> (Bales)	E <small>UROPE</small>	U <small>NITED STATES</small>	O <small>TH</small> ER C <small>OUNTRIES</small>
1909-10	16,988,000	19,164,000	10,295,000	4,530,000	54	24	22
1910-11	18,856,000	19,888,000	11,040,000	4,408,000	56	22	22
1911-12	22,247,000	21,534,000	11,998,000	5,026,000	56	23	21
1912-13	21,550,000	22,055,000	12,158,000	5,575,000	55	25	20
1913-14	22,612,000	22,198,000	12,029,000	5,465,000	54	25	21
1914-15	24,861,000	20,670,000	10,606,000	5,485,000	51	26	23
1915-16	18,461,000	21,978,000	10,878,000	6,270,000	50	28	22
1916-17	18,924,000	21,108,000	9,044,000	6,653,000	43	32	25
1917-18	18,141,000	18,515,000	6,621,000	6,435,000	36	35	29
1918-19	18,765,000	16,704,000	5,962,000	5,831,000	36	35	29
1919-20	20,220,000	19,300,000	7,700,000	6,485,000	40	34	26
1920-21	19,665,000	16,905,000	6,735,000	4,905,000	40	29	31
1921-22	15,334,000	19,990,000	7,916,000	5,910,000	39	30	31
1922-23	17,926,000	21,325,000	8,129,000	6,666,000	38	31	31
1923-24	19,036,000	19,982,000	8,363,000	5,681,000	42	28	30
1924-25	23,836,000	22,642,000	9,689,000	6,191,000	43	30	27
1925-26	26,666,000	23,949,000	10,031,000	6,456,000	42	31	27
1926-27	27,813,000	25,869,000	10,884,000	7,190,000	42	30	28

## Source of Supply of Cotton according to Length of Staple

[Bales of 500 pounds; gross weight]

Source: British Cotton Growing Committee and United States Bureau of Markets

GROWTHS	Kind	Where Grown	Length of Staple (Inches)	Approximate Pre-war Supply (Bales)
I	Sea Island	Islands, South Carolina	1½-2¼	8,000
	Sea Island	West Indies	1½-2¼	4,000
	Sea Island	Islands, Florida and Georgia	1½-1¾	70,000
	Sea Island	West Indies	1½-1¾	2,000
II	Egyptian	Egypt	1½-1¾	550,000
	Egyptian	Egypt	1-1¾	700,000
	Egyptian	Sudan	1-1¾	20,000
	American	Mississippi Delta, etc.	1½-1¾	200,000
III	African	Nyasaland, Uganda, and East and South Africa	1½-1¾	40,000
	Peruvian	Peru	1-1½	125,000
	American <sup>1</sup>	United States	¾-1¾	15,000,000
	Mexican	Mexico	¾-1½	150,000
IV	Brazilian	Brazil	¾-1¾	300,000
	Russian	Russia	1-1¾	500,000
	West African	West Africa	1-1¾	15,000
	Levant	Levant	¾-1¾	100,000
V	Indian	India	1-1½	400,000
	Chinese and Korean	China and Chosen (Korea)	1	250,000
	Indian	India	¾-¾	4,500,000
	Russian	Russia	¾-¾	750,000
	Chinese	China	¾-¾	1,800,000
Approximate world's pre-war supply				25,484,000

<sup>1</sup> Including American-Egyptian cotton.

# Length<sup>1</sup> of Staple of the World's Cotton by Varieties

[In inches]

Source: United States Department of Agriculture

Variety	Minimum	Average	Maximum	Variety	Minimum	Average	Maximum
United States:				India:			
Sea Island . . . . .	1½	—	2½	Cambodia . . . . .	5/8	—	1½
Meade . . . . .	1½	—	1¾	Karunganni . . . . .	7/8	—	1
American-Egyptian . . . . .	1½	—	1¾	Broach . . . . .	3/8	—	1
Upland long staple . . . . .	1½	—	1¾	Oomras . . . . .	1½	—	2
Upland short staple . . . . .	¾	—	1½	Dholeras . . . . .	5/8	—	1½
Mexico . . . . .	—	1	—	Kumptas . . . . .	7/8	—	—
				Western and Northern	3/8	—	1½
Egypt:				Tinnevellys . . . . .	3/8	—	1½
Sakels . . . . .	1½	—	1½	Bengals . . . . .	3/8	—	—
Brown and uppers . . . . .	1½	—	1½	Sind-Punjab . . . . .	3/8	—	—
China:				Brazil:			
Native . . . . .	—	5/8	7/8	Serido or Mocó . . . . .	1½	—	1½
American . . . . .	—	—	1	Verdão . . . . .	1½	—	1½
				Inteiro . . . . .	1½	—	—
Russia:				Quebradinho . . . . .	1½	—	1½
Native . . . . .	¾	—	¾	Macaco or Garga . . . . .	1½	—	—
American . . . . .	—	—	1½	Cleveland . . . . .	1½	—	—
				Russel Big Boll . . . . .	1½	—	1½
Peru:				Express . . . . .	—	—	—
Full rough (aspero) . . . . .	—	1½	—	Webber . . . . .	7/8	—	1
Semi-rough (semi-aspero) . . . . .	—	1½	—	Herbacco . . . . .	1½	—	1½
Egipto (suave) . . . . .	1½	—	1½	Durango . . . . .	—	—	—
Tanguis . . . . .	—	1½	1½	Sea Island . . . . .	—	1½	—
Mitafi . . . . .	—	1½	—	Campo Brito . . . . .	—	1½	—

<sup>1</sup> Figures are only approximate. It must be noted that opinions frequently differ as to length of certain varieties.

# Range of Staple of Various Cottons

Source: Department of Agriculture

## UNITED STATES

American-Egyptian . . . . .	$1\frac{3}{8}$ to $1\frac{5}{8}$ inches, bulk about $1\frac{9}{16}$ inches
Upland Long Staples (Mississippi Delta and Arkansas) . . . . .	$1\frac{1}{16}$ to $1\frac{5}{16}$ inches
Western Uplands . . . . .	$\frac{7}{8}$ to $1\frac{1}{16}$ inches, with some $1\frac{1}{8}$ inches
Eastern Uplands . . . . .	$\frac{7}{8}$ to 1 inch, with some below $\frac{7}{8}$ and some above 1 inch

## INDIA

Dharwar No. 1 (Kumpta) . . . . .	$\frac{7}{8}$ to 1 inch
Gadag No. 1 (Dharwar-American) . . . . .	$\frac{13}{16}$ to $\frac{15}{16}$ inch
Surat . . . . .	$\frac{15}{16}$ to $1\frac{1}{16}$ inches
Punjab American . . . . .	$\frac{5}{8}$ to $1\frac{1}{8}$ inches
Cambodia . . . . .	$\frac{7}{8}$ to $1\frac{1}{8}$ inches
Hagari (Sircar) . . . . .	$\frac{5}{8}$ to $\frac{7}{8}$ inch
Bengal . . . . .	$\frac{1}{2}$ to $\frac{5}{8}$ inch

## EGYPT

Uppers (high grade) . . . . .	$1\frac{1}{16}$ to $1\frac{1}{8}$ inches
Uppers (low grade) . . . . .	$1\frac{1}{16}$ inches
Upper (Ashmouni) . . . . .	$1\frac{1}{8}$ inches
Upper (Zagora) . . . . .	$1\frac{5}{32}$ inches
Sakellaridis (high grade) . . . . .	$1\frac{5}{8}$ inches
Sakellaridis (low grade) . . . . .	$1\frac{3}{16}$ to $1\frac{1}{4}$ inches
Cazuli . . . . .	$1\frac{7}{16}$ inches
Nahda . . . . .	$1\frac{7}{16}$ inches
Pilion . . . . .	$1\frac{5}{16}$ inches
Sakellaridis Domains . . . . .	$1\frac{5}{8}$ inches
310 . . . . .	$1\frac{9}{16}$ inches

## PERU

Smooth Tanguis . . . . .	$1\frac{1}{4}$ inches
Rough Tanguis . . . . .	$1\frac{3}{32}$ inches
Egipto Tanguis . . . . .	$1\frac{3}{32}$ inches
Mitaffi . . . . .	$1\frac{1}{4}$ inches
Pima Peruvian . . . . .	$1\frac{3}{8}$ inches
Full Rough Tanguis . . . . .	$1\frac{3}{16}$ inches
Moderate (semi-rough) . . . . .	$1\frac{3}{16}$ inches

## CHINA

Tungchow . . . . .	$\frac{13}{16}$ inch
Hakush . . . . .	$\frac{1}{2}$ to $\frac{5}{8}$ inch
Sengsi (Shensi) . . . . .	$\frac{5}{8}$ to $\frac{7}{8}$ inch
Lingpao . . . . .	$1\frac{1}{16}$ inches
Tien Tsin . . . . .	Half and half
Indo China . . . . .	$\frac{7}{8}$ inch

## BRAZIL

Sao Paulo . . . . .	$\frac{7}{8}$ inch
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## Approximate Dates of Cotton Planting and Picking by Countries

Source: United States Department of Agriculture

COUNTRY	PLANTING			PICKING		
	Beginning	Principal Months	End	Beginning	Principal Months	End
United States <sup>1</sup>	March 15	—	May 25	July 1	—	Dec. 31
Mexico:						
Laguna District	—	—	March	July	—	Dec.
Lower California	March	—	July	Sept.	—	Feb.
Egypt	Feb.	—	May	Aug.	—	Dec.
China	May	—	—	Oct.	—	—
Russia	—	March–April	—	Aug.	—	Oct.
India	—	March–Dec.	—	—	Oct.–April	—
Brazil:						
North	Dec.	—	April	Aug.	—	Dec.
South	Sept.	—	Nov.	March	—	May
Peru <sup>2</sup>	—	Oct.–Dec.	—	—	May–Sept.	—

<sup>1</sup> About 95 per cent of the crop is picked from August 1 to November 30.<sup>2</sup> Planting and picking are carried on all the year. Some varieties yield several crops before they are replanted.

## Usual Dates when Planting and Picking of Cotton Begins, is Most General, and Ends

Source: United States Department of Agriculture

STATES	PLANTING			PICKING		
	Beginning	General	Ending	Beginning	General	Ending
North Carolina	Apr. 19	May 2	May 16	Sept. 5	Oct. 11	Dec. 6
South Carolina	Apr. 5	Apr. 22	May 12	Aug. 25	Sept. 23	Dec. 5
Georgia	Apr. 5	Apr. 21	May 12	Aug. 27	Oct. 3	Dec. 9
Florida	Mar. 16	Mar. 28	Apr. 20	Aug. 16	Sept. 26	Nov. 27
Alabama	Apr. 8	Apr. 20	May 11	Aug. 29	Oct. 5	Dec. 7
Mississippi	Apr. 5	Apr. 21	May 11	Aug. 30	Oct. 4	Dec. 10
Louisiana	Mar. 29	Apr. 15	May 7	Aug. 26	Sept. 24	Dec. 14
Texas	Mar. 29	Apr. 14	May 9	Aug. 27	Oct. 2	Dec. 10
Arkansas	Apr. 15	Apr. 28	May 13	Sept. 6	Oct. 10	Dec. 9
Tennessee	Apr. 21	May 2	May 16	Sept. 4	Oct. 4	Nov. 30
Oklahoma	Apr. 18	May 2	May 24	Sept. 16	Oct. 18	Dec. 28
Missouri	Apr. 25	May 4	May 14	Sept. 22	Oct. 24	Dec. 10
Virginia	May 1	May 10	May 20	Sept. 15	Oct. 15	Jan. 1
California	Feb. 15	Apr. 15	June 1	Aug. 15	Dec.	Feb. 15

## Average Gross Weights of Cotton Bales

Source: United States Department of Agriculture

VARIETY	Pounds
Egyptian	750
Chinese	450
East Indian	400
African	400
West Indian	400
Brazilian	375
Peruvian	356
American, Sea Island	374
American, Upland	498
North Carolina	486
South Carolina	491
Georgia	499
Alabama	509
Mississippi	508
Louisiana	502
Texas	514
Arkansas	511
Tennessee	510

# Weight, Size, Density and Tare of Foreign Bales

Department of Commerce

	Egyptian	East Indian (Sindic)	African (Other than Egyptian)	BRAZIL		Mexican
				Pernam- buco	Rio	
Gross weight, pounds . . . .	741	334	400	354	142	508
Size of bales:						
Height (inches) . . . .	52	32	40½	51	56	49
Width (inches) . . . .	21½	18	27	18	16	29
Depth (inches) . . . .	32	27	27	21	30	46
Density per cubic foot (pounds)	35.8	37.1	23.41	31.749	9.13	13.43
Contents (cubic feet) . . . .	20.7	9.0	17.08	11.15	15.55	37.82
Actual weight of canvas and bands . . . . .	25	9¾	10	11¾	5	8

**Estimated Cotton Production of Minor Producing Areas**

[In bales of 478 pounds net]

Source: Bureau of Foreign and Domestic Commerce

	1923-24	1924-25	1925-26	1926-27 <sup>1</sup>
Guatemala . . . . .	825	2,100	1,000	1
Salvador . . . . .	1,000	10,000	2,500	—
Colombia . . . . .	5,000	8,000	8,000	1,000
Venezuela . . . . .	10,000	15,000	12,000	(12,000)
Ecuador . . . . .	10,000	11,500	6,000	5,400
Paraguay . . . . .	16,000	12,200	10,000	11,000
Argentina . . . . .	47,000	69,000	135,000	58,000
Haiti . . . . .	15,000	16,000	20,000	22,000
Other West Indies . . . . .	6,200	4,000	4,000	5,000
Greece . . . . .	10,000	11,000	20,000	30,000
Malta . . . . .	98	480	480	500
Cyprus . . . . .	1,674	2,660	2,600	3,600
Jugoslavia . . . . .	669	418	600	200
Bulgaria . . . . .	1,800	2,960	1,700	3,000
Italy . . . . .	5,000	4,520	4,500	4,500
Japan . . . . .	4,000	3,000	—	—
Korea . . . . .	111,000	121,000	125,000	145,000
French Indo-China . . . . .	10,000	10,000	15,000	(15,000)
Siam . . . . .	5,000	2,900	4,000	4,000
Afghanistan . . . . .	5,000	5,000	5,000	5,000
Persia . . . . .	40,000	60,000	90,000	90,000
Turkey . . . . .	60,000	110,000	130,000	97,000
Dutch East Indies . . . . .	8,000	8,000	6,000	2,000
New Hebrides . . . . .	1,830	2,000	2,000	2,000
Australia . . . . .	25,000	8,790	6,300	4,000
Fiji, etc. . . . .	79	80	120	380
Uganda . . . . .	94,000	140,000	140,000	101,000
Tanganyika . . . . .	8,400	15,700	17,300	21,000
Nigeria . . . . .	18,000	24,000	30,000	40,000
British South Africa . . . . .	5,020	7,300	26,200	9,000
Rhodesia . . . . .	1,000	1,650	10,000	4,100
Sudan . . . . .	41,000	45,000	106,000	130,000
French Africa . . . . .	2,445	3,000	1,000	—
Belgian Congo . . . . .	4,600	16,000	13,000	5,000
Togoland . . . . .	4,600	5,000	5,000	(5,000)
Nyasaland . . . . .	5,440	2,400	9,600	6,000
Mozambique . . . . .	12,000	5,000	1,500	(1,500)
Algeria . . . . .	795	2,238	5,800	9,000
Ivory Coast . . . . .	100	100	100	—
Eritrea . . . . .	1,381	2,760	2,000	2,300
Italian Somaliland . . . . .	1,757	2,301	2,500	3,000
Gold Coast . . . . .	837	800	500	500
Angola . . . . .	2,000	2,000	2,000	2,000
Kenya . . . . .	1,600	1,600	2,000	2,000
Total . . . . .	605,150	777,457	984,300	861,981

<sup>1</sup> Figures in parentheses are carried forward from last year.



# Cotton Acreage and Yield per Acre of Egypt, India and the United States

United States Bureau of the Census and Department of Agriculture

YEAR	EGYPT		INDIA		UNITED STATES	
	Acres	Pounds	Acres	Pounds	Acres	Pounds
1902 . . .	1,324,000	437	16,581,046	90	27,175,000	187
1903 . . .	1,383,000	466	18,025,000	79	27,052,000	174
1904 . . .	1,491,000	420	19,918,000	77	31,215,000	206
1905 . . .	1,626,000	363	20,401,000	83	27,110,000	187
1906 . . .	1,564,000	440	22,488,000	87	31,374,000	202
1907 . . .	1,664,000	431	21,630,000	58	29,660,000	179
1908 . . .	1,703,000	393	19,999,000	74	32,444,000	195
1909 . . .	1,619,000	309	20,545,000	92	32,044,000	154
1910 . . .	1,664,000	453	22,596,000	68	32,403,000	171
1911 . . .	1,776,000	412	21,615,000	61	36,045,000	208
1912 . . .	1,787,000	417	22,028,000	84	34,283,000	191
1913 . . .	1,789,000	425	25,020,000	81	37,089,000	182
1914 . . .	1,823,000	353	24,595,000	85	36,832,000	209
1915 . . .	1,231,000	387	17,746,000	84	31,412,000	170
1916 . . .	1,718,000	295	21,745,000	83	34,985,000	157
1917 . . .	1,741,000	359	25,188,000	64	33,841,000	160
1918 . . .	1,366,000	338	21,038,000	76	36,008,000	160
1919 . . .	1,633,000	399	23,353,000	99	33,566,000	161
1920 . . .	1,897,000	336	21,341,000	68	35,878,000	178
1921 . . .	1,341,000	329	18,451,000	97	30,509,000	125
1922 . . .	1,868,000	360	21,077,000	98	33,036,000	142
1923 . . .	1,856,000	354	23,088,000	88	41,360,000	130
1924 . . .	1,856,000	329	24,833,000	98	40,115,000	157
1925 . . .	1,998,000	390	27,960,000	86	46,053,000	167
1926 . . .	1,853,000	386	25,006,000	79	47,087,000	182
1927 . . .	1,573,815	394	23,812,000	95	40,168,000	152

## Acreage planted to Egyptian Cotton, by Varieties

[Expressed in feddans<sup>1</sup>]

Source: Egyptian Ministry of Agriculture

	1922	1923	1924	1925	1926	1927
Sakellaridis . . .	1,357,197	1,162,036	872,624	1,128,946	981,783	795,740
Ashmouni (Uppers)	276,193	287,171	279,362	270,842	667,474	599,149
Mitaffi . . .	8,178	5,599	—	—	—	—
Nubari . . .	11,084	9,862	—	—	—	3—
Affi Assil . . .	7,878	7,246	22,271	8,384	4,234	4,261
Abassi . . .	2,274	1,772	3—	3—	3—	3—
Joanovich . . .	335	4,082	3—	3—	3—	3—
Pilion . . .	3—	3—	49,960	72,799	102,394	74,451
Various . . .	136,704	110,332	46,626	443,411	29,817	42,598
Total . . .	1,799,843	1,588,100	1,787,843	1,924,382	1,785,702	1,516,199

<sup>1</sup> 1 feddan = 1.038 acres.

<sup>2</sup> Including Zagoura, which has previously been included in "Various."

<sup>3</sup> Included in "Various."

## Acreage of Cotton planted, Acreage abandoned, and Acreage harvested in the United States

Source: United States Department of Agriculture

YEAR	Acreage planted <sup>1</sup>	Acreage abandoned	Acreage harvested
1912	34,766,000	483,000	34,283,000
1913	37,458,000	369,000	37,089,000
1914	37,406,000	574,000	36,832,000
1915	32,107,000	695,000	31,412,000
1916	36,052,000	1,067,000	34,985,000
1917	34,925,000	1,084,000	33,841,000
1918	37,207,000	1,199,000	36,008,000
1919	35,133,000	1,567,000	33,566,000
1920	37,043,000	1,165,000	35,878,000
1921	31,678,000	1,169,000	30,509,000
1922	34,016,000	980,000	33,036,000
1923	38,701,000	867,000	37,123,000
1924	41,390,000	1,275,000	41,360,000
1925	48,090,000	2,037,000	46,053,000
1926	48,730,000	1,636,000	47,087,000
1927 <sup>2</sup>	42,112,000 <sup>3</sup>	1,941,000	40,168,000

<sup>1</sup> Acreage planted is computed as of June 25 each year.

<sup>2</sup> 1927 figures are subject to revision.

<sup>3</sup> July 1, 1927.

## Acreage of Cotton harvested in the United States

Source: United States Department of Agriculture

STATE	THOUSANDS OF ACRES							
	1920	1921	1922	1923	1924	1925	1926	1927 <sup>1</sup>
Total	35,878	30,509	33,036	37,123	41,360	46,053	47,087	40,168
Alabama	2,858	2,235	2,771	3,079	3,055	3,504	3,651	3,225
Arizona	230	90	101	127	180	162	167	137
Arkansas	2,980	2,382	2,799	3,026	3,094	3,738	3,790	3,045
California <sup>2</sup>	275	140	202	233	317	319	292	238
Florida	100	65	118	147	80	101	105	66
Georgia	4,900	4,172	3,418	3,421	3,046	3,589	3,965	3,412
Louisiana	1,470	1,168	1,140	1,405	1,616	1,874	1,979	1,560
Mississippi	2,950	2,628	3,014	3,170	2,981	3,466	3,752	3,338
Missouri	136	103	198	355	493	520	434	281
New Mexico	—	—	—	60	101	107	120	95
North Carolina	1,587	1,403	1,625	1,679	2,005	2,017	1,985	1,727
Oklahoma	2,749	2,206	2,915	3,197	3,861	5,214	4,676	3,433
South Carolina	2,964	2,571	1,912	1,965	2,404	2,654	2,648	2,421
Tennessee	840	634	985	1,172	996	1,173	1,143	943
Texas	11,898	10,745	11,874	14,150	17,175	17,608	18,374	16,270
Virginia	42	34	55	74	102	100	93	67
All other	24	18	44	73	41	57	43	20

<sup>1</sup> Preliminary estimate.

<sup>2</sup> Lower California (110,000 acres in 1927; 130,000 in 1926; 150,000 in 1925; 140,000 in 1924; 148,000 in 1923; 135,000 in 1922; 85,000 in 1921; 125,000 in 1920 and 100,000 in 1919) included in California figures, but excluded from United States totals.

# Acreage and Production of Cotton in Egypt

Source: Egyptian Ministry of Finance

YEAR	Acreage in Feddans <sup>1</sup>	Acreage in Acres	Crop in Kantars Gross Weight <sup>2</sup>	Crop in Equivalent 500-Pound Bales	Yield in Kantars per Feddan	Yield in Pounds per Acre
1911	1,711,241	1,776,000	7,386,000	1,463,000	4.32	412
1912	1,721,817	1,787,000	7,499,000	1,492,000	4.35	417
1913	1,723,094	1,789,000	7,664,000	1,522,000	4.44	425
1914	1,755,270	1,823,000	6,451,000	1,286,000	3.67	353
1915	1,186,004	1,231,000	4,775,000	952,000	4.03	387
1916	1,655,512	1,718,000	5,060,000	1,012,000	3.06	295
1917	1,677,310	1,741,000	6,293,000	1,249,000	3.75	359
1918	1,315,572	1,366,000	4,821,000	955,000	3.66	338
1919	1,573,662	1,633,000	5,572,000	1,248,000	3.54	399
1920	1,827,870	1,897,000	6,036,000	1,231,000	3.30	336
1921	1,291,878	1,341,000	4,353,000	862,000	3.37	329
1922	1,799,843	1,868,000	6,713,000	1,119,000	3.73	360
1923	1,588,100	1,648,000	5,844,000	1,160,000	3.68	351
1924	1,787,843	1,856,000	6,379,862	1,321,972	3.56	340
1925	1,924,382	1,998,000	7,860,000	1,629,000	4.08	390
1926	1,785,702	1,853,000	7,223,585	1,496,799	4.05	386
1927 <sup>3</sup>	1,516,199	1,573,815	6,041,499	1,224,341	3.98	394

<sup>1</sup> 1 feddan = 1.038 acres.

<sup>2</sup> 1 kantar = 99.049 pounds.

<sup>3</sup> Preliminary estimates.

## Acreage and Crops of American-Egyptian Cotton

[Crops in 500-pound bales gross]

Source: United States Department of Agriculture

YEAR	Acreage planted	Crop
1912	520	375
1913	3,500	2,135
1914	12,000	6,187
1915	2,330	1,095
1916	5,477	3,331
1917	33,000	15,966
1918	80,000	36,187
1919	90,000	40,437
1920	240,000	91,965
1921	80,000	37,094
1922	77,000	32,824
1923	40,000	22,426
1924	8,000	4,319
1925	40,000	20,053
1926	27,000	16,232
1927	46,000	24,223

## Dates of Earliest Killing Frosts in Autumn in the Cotton Belt of the United States during the Past Six Years

Source: United States Weather Bureau

	1922	1923	1924	1925	1926	1927
North Carolina:						
Charlotte .	Nov. 23	Nov. 9	Nov. 19	Oct. 29	Nov. 11	Nov. 7
Rockingham .	Nov. 11	Nov. 2 <sup>1</sup>	Oct. 24	Oct. 11 <sup>1</sup>	Oct. 26	Nov. 7
Raleigh .	Nov. 22	Nov. 2	Nov. 18	Oct. 29	Nov. 4	Nov. 7
Goldsboro .	Nov. 11 <sup>1</sup>	Nov. 9 <sup>1</sup>	Nov. 18 <sup>1</sup>	Oct. 11 <sup>1</sup>	Oct. 18	Nov. 6 <sup>1</sup>
South Carolina:						
Charleston .	Nov. 29	Nov. 10	Nov. 30	Nov. 24	Dec. 19	Dec. 20
Columbia .	Nov. 22	Nov. 9	Nov. 19	Nov. 24	Nov. 11	Nov. 21
Georgia:						
Atlanta .	Nov. 21	Nov. 9	Nov. 25	Oct. 29	Nov. 3	Nov. 19
Augusta .	Nov. 22	Nov. 10	Nov. 19	Nov. 24	Nov. 12	Nov. 21
Savannah .	Nov. 29	Nov. 10	Nov. 36	Nov. 24	Nov. 12	Dec. 9 <sup>1</sup>
Columbus .	Nov. 29	Nov. 10	Nov. 26	Nov. 17	Nov. 11	Nov. 19
Rome .	Nov. 10	Nov. 8	Nov. 19 <sup>1</sup>	Oct. 29	Nov. 3	Nov. 19
Alabama:						
Eufaula .	Nov. 29	Nov. 10	Nov. 26	Nov. 17	Nov. 11 <sup>1</sup>	Nov. 19
Mobile .	None	Jan. 6 <sup>2</sup>	Nov. 26	Dec. 23	Dec. 16	Dec. 9
Montgomery .	Nov. 29	Dec. 7	Nov. 26	Nov. 23	Nov. 11	Nov. 19
Mississippi:						
Vicksburg .	Dec. 19	Nov. 30	Nov. 25	Nov. 23	Nov. 10	Nov. 18
Greenville .	Nov. 26	Nov. 7	Oct. 24	Oct. 20 <sup>1</sup>	Oct. 25 <sup>1</sup>	Dec. 3 <sup>1</sup>
Louisiana:						
New Orleans .	None	Jan. 6 <sup>2</sup>	Dec. 26	Dec. 28	None	Dec. 9
Shreveport .	Nov. 21	Dec. 6	Nov. 25	Nov. 23	Nov. 10	Nov. 17
Texas:						
Galveston .	None	Jan. 7 <sup>2</sup>	Dec. 19	Dec. 23	None	Dec. 8
Palestine .	Dec. 19	Dec. 14	Dec. 10	Nov. 23	Nov. 18	Dec. 8
San Antonio .	None	Jan. 1 <sup>2</sup>	Dec. 19	Nov. 16	None	Dec. 8
Fort Worth .	Dec. 10	Dec. 14	Dec. 9	Oct. 28	Nov. 10	Dec. 1
Arkansas:						
Little Rock .	Nov. 26	Nov. 30	Nov. 25	Oct. 30	Nov. 3	Nov. 17
Fort Smith .	Nov. 26	Nov. 29	Nov. 24	Oct. 28	Nov. 5	Nov. 16
Tennessee:						
Memphis .	Nov. 16	Oct. 31	Nov. 29	Oct. 29	Oct. 25	Nov. 18
Nashville .	Nov. 21	Nov. 1	Oct. 24	Oct. 20	Nov. 3	Nov. 6
Chattanooga .	Nov. 21	Nov. 9	Nov. 20	Oct. 29	Nov. 6	Nov. 19
Oklahoma:						
Ardmore .	Nov. 20	Nov. 30 <sup>1</sup>	Nov. 24	Oct. 25	Nov. 9 <sup>1</sup>	Nov. 17
Oklahoma .	Nov. 14	Oct. 31	Nov. 24	Oct. 25	Nov. 9	Nov. 12
Mangum .	Nov. 13	Nov. 6 <sup>1</sup>	Nov. 7 <sup>1</sup>	No record	Nov. 2	Nov. 12

<sup>1</sup> First date with temperature of 32° or below.

<sup>2</sup> 1924.

**Dates of Earliest Killing Frosts in Autumn, and Latest Killing Frosts in Spring, from Beginning of Record kept by United States Weather Bureau to December 31, 1927**

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
<b>Virginia:</b>					
Newport News . . . .	28	Oct. 3	Nov. 6	April 26	March 28
Norfolk . . . . .	55	Oct. 11	Nov. 17	April 26	March 25
Richmond . . . . .	30	Oct. 12	Oct. 31	April 26	April 7
<b>North Carolina:</b>					
Greensboro . . . . .	24	Oct. 11	Oct. 30	April 26	April 9
Raleigh . . . . .	41	Oct. 8	Nov. 5	April 26	March 29
Wilmington . . . . .	57	Oct. 16	Nov. 13	May 1	March 23
Charlotte . . . . .	49	Oct. 8	Nov. 5	April 26	March 28
Monroe . . . . .	31	Oct. 2	Oct. 19	May 10	April 14
<b>South Carolina:</b>					
Charleston . . . . .	57	Nov. 8	Dec. 10	April 2	Feb. 20
Columbia . . . . .	48	Oct. 30	Nov. 18	April 17	March 18
Greenwood . . . . .	30	Oct. 11	Nov. 8	April 17	March 25
Spartanburg . . . . .	37	Sept. 24	Nov. 1	April 17	March 30
Greenville . . . . .	32	Oct. 10	Nov. 2	April 24	April 3
<b>Georgia:</b>					
Macon . . . . .	28	Oct. 11	Nov. 7	April 18	March 23
Athens . . . . .	34	Oct. 11	Nov. 1	April 21	April 2
Augusta . . . . .	54	Oct. 21	Nov. 10	April 17	March 22
Savannah . . . . .	55	Oct. 25	Nov. 24	April 13	Feb. 26
Rome . . . . .	36	Oct. 11	Oct. 27	April 24	April 9
Columbus . . . . .	31	Oct. 11	Nov. 6	April 26	March 22
Gainesville . . . . .	31	Oct. 11	Oct. 27	April 24	April 9
Newnan . . . . .	31	Oct. 11	Nov. 5	April 26	April 5
Thomasville . . . . .	33	Oct. 21	Nov. 15	April 26	March 14
<b>Florida:</b>					
Gainesville . . . . .	30	Nov. 10	Dec. 3	April 2	Feb. 26
Jacksonville . . . . .	72	Nov. 12	Dec. 6	April 10	Feb. 16
Lake City . . . . .	35	Oct. 25	Nov. 28	April 26	March 10
Pensacola . . . . .	48	Oct. 27	Dec. 7	April 6	Feb. 17
Tallahassee . . . . .	37	Nov. 4	Dec. 1	April 10	March 4
Tampa . . . . .	38	Nov. 21	Jan. 3	April 7	Jan. 26
<b>Alabama:</b>					
Anniston . . . . .	23	Oct. 11	Nov. 1	April 25	March 24
Opelika . . . . .	33	Oct. 21	Nov. 11	April 17	March 20
Montgomery . . . . .	56	Oct. 21	Nov. 11	April 5	March 10
Selma . . . . .	30	Oct. 13	Nov. 10	April 26	March 16
Eufaula . . . . .	36	Oct. 21	Nov. 12	April 26	March 16
Mobile . . . . .	57	Oct. 31	Dec. 5	April 6	Feb. 17
Decatur . . . . .	32	Oct. 11	Nov. 2	April 26	March 28
Birmingham . . . . .	33	Oct. 21	Nov. 9	April 20	March 16
Tuscaloosa . . . . .	39	Oct. 21	Nov. 6	April 25	March 27
Thomasville . . . . .	30	Oct. 20	Nov. 10	April 26	March 17
<b>Mississippi:</b>					
Yazoo City . . . . .	33	Oct. 13	Nov. 2	April 25	March 20
Vicksburg . . . . .	57	Oct. 20	Nov. 12	April 6	March 4
Meridian . . . . .	38	Oct. 8	Nov. 5	April 25	March 18
Natchez . . . . .	33	Oct. 20	Nov. 14	April 25	March 14

# Dates of Earliest Killing Frosts in Autumn and Latest Killing Frosts in Spring, and Average Dates, etc. — (Concluded)

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
Mississippi (Continued):					
Greenville . . . .	37	Oct. 10	Nov. 6	April 26	March 19
Greenwood . . . .	28	Oct. 13	Oct. 31	April 26	March 25
Columbus . . . .	33	Oct. 11	Oct. 31	April 26	March 27
Louisiana:					
Baton Rouge . . . .	41	Oct. 14	Nov. 18	April 5	Feb. 20
New Orleans . . . .	55	Nov. 11	Dec. 16	March 27	Jan. 25
Monroe . . . .	34	Oct. 10	Nov. 10	April 9	March 11
Natchez (see Mississippi)					
Shreveport . . . .	55	Oct. 20	Nov. 10	April 9	March 6
Vicksburg (see Mississippi)					
Texas:					
Houston . . . .	37	Oct. 25	Dec. 1	March 26	Feb. 19
Galveston . . . .	56	Nov. 16	Dec. 26	March 1	Jan. 19
Corpus Christi . . . .	41	Nov. 29	Dec. 28	March 19	Jan. 21
Luling . . . .	36	Oct. 27	Nov. 21	April 9	March 6
Cuero . . . .	35	Oct. 27	Nov. 23	April 5	Feb. 27
San Antonio . . . .	42	Oct. 30	Nov. 28	April 5	Feb. 24
El Paso . . . .	40	Oct. 27	Nov. 15	April 26	March 14
Abilene . . . .	42	Oct. 19	Nov. 10	April 23	March 21
Amarillo . . . .	36	Sept. 22	Oct. 29	May 23	April 17
Fort Worth . . . .	33	Oct. 22	Nov. 12	April 9	March 11
Lampasas . . . .	35	Oct. 9	Nov. 9	May 2	March 22
Taylor . . . .	33	Oct. 30	Nov. 22	April 5	March 13
Temple . . . .	36	Oct. 29	Nov. 18	April 9	March 10
Austin . . . .	57	Oct. 28	Nov. 22	April 9	March 5
Waco . . . .	37	Oct. 22	Nov. 12	April 9	March 12
Gainesville . . . .	37	Oct. 9	Nov. 6	May 1	March 28
Dallas . . . .	38	Oct. 8	Nov. 13	May 1	March 19
Waxahachie . . . .	29	Oct. 9	Nov. 7	April 30	March 27
Corsicana . . . .	37	Oct. 22	Nov. 14	May 1	March 15
Palestine . . . .	45	Oct. 20	Nov. 13	April 5	March 13
Nacogdoches . . . .	27	Oct. 21	Nov. 12	April 25	March 18
Greenville . . . .	26	Oct. 19	Nov. 12	April 26	March 19
Paris . . . .	37	Oct. 9	Nov. 11	April 17	March 19
Arkansas:					
Fort Smith . . . .	46	Oct. 9	Nov. 5	April 17	March 21
Little Rock . . . .	48	Oct. 22	Nov. 13	April 26	March 18
Pine Bluff . . . .	34	Oct. 11	Nov. 4	April 25	March 24
Texarkana . . . .	35	Oct. 9	Nov. 9	April 17	March 20
Tennessee:					
Memphis . . . .	56	Oct. 2	Nov. 3	April 25	March 22
Nashville . . . .	57	Oct. 8	Oct. 27	April 24	April 2
Chattanooga . . . .	49	Sept. 30	Oct. 26	May 14	April 2
Decatur . . . .	31	Oct. 2	Oct. 23	May 14	April 18
Knoxville . . . .	57	Oct. 1	Oct. 28	April 26	April 2
Oklahoma:					
Muskogee . . . .	26	Oct. 10	Nov. 3	April 21	March 22
Oklahoma . . . .	37	Oct. 7	Nov. 2	April 30	March 31
Missouri:					
St. Louis . . . .	55	Sept. 30	Oct. 27	May 22	April 4

# Forecasts of American Cotton Crops by United States Department of Agriculture compared with Actual Yield and Production Forecasts of Yield per Acre

YEAR	FORECASTS OF YIELD PER ACRE (POUNDS)					Actual Yield (Pounds)	POUNDS VARIATION OF FORECAST FROM YIELD				
	May 25	June 25	July 25	Aug. 25	Sept. 25		May 25	June 25	July 25	Aug. 25	Sept. 25
1927 <sup>1</sup>	—	158.5	155.8	156.8	149.3	152.3	—	—	—	—	—
1926 <sup>2</sup>	—	147.7	140.0	144.6	160.0	187.0	—	—	—	—	—
1925 <sup>2</sup>	—	143.8	141.3	153.5	133.5	162.3	—	—	—	—	—
1924 <sup>2</sup>	—	142.6	143.9	131.8	149.2	156.8	—	—	—	—	—
1923 <sup>2</sup>	—	153.5	157	145	137.7	128.8	—	—	—	—	—
1922 <sup>2</sup>	—	132.2	170.4	148	118	141.6	—	—	—	—	—
1921 <sup>2</sup>	—	155.9	174.0	171.0	165.0	170.8	—	—	—	—	—
1920 <sup>2</sup>	—	171.3	156.8	150.8	158.0	158.2	—	—	—	—	—
1919 <sup>2</sup>	—	169.8	177.3	145.2	151.1	152.6	—	—	—	—	—
1918 <sup>2</sup>	—	162.5	166.9	174.6	168.3	156.7	—	—	—	—	—
1917 <sup>2</sup>	—	181.5	173.4	158.5	168.1	172.5	—	—	—	—	—
1916 <sup>2</sup>	—	—	—	—	—	—	—	—	—	—	—
1915 <sup>2</sup>	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup> 1927 reports were dated August 1, September 1 and December 1.    <sup>2</sup> 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8.

## Forecasts of Total Crop [500-pound gross bales, exclusive of linters]

YEAR	FORECASTS OF CROPS					Actual Production	AMOUNT OF VARIATION OF FORECASTS FROM ACTUAL PRODUCTION				
	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.		June 25	July 25	Aug. 25	Sept. 25	Dec. Est.
1927 <sup>1</sup>	—	15,635,000	13,492,000	12,692,000	12,789,000	12,950,000 <sup>3</sup>	—	—	—	—	—
1926 <sup>2</sup>	—	15,358,000	15,218,000	15,810,000	18,618,000	17,977,374	—	—	—	—	—
1925 <sup>2</sup>	—	11,339,000	13,990,000	13,931,000	15,603,000	16,107,579	—	—	—	—	—
1924 <sup>2</sup>	—	11,412,000	12,556,000	12,596,000	13,153,000	13,627,936	—	—	—	—	—
1923 <sup>2</sup>	—	11,516,000	10,788,000	11,015,000	10,981,000	10,139,571	—	—	—	—	—
1922 <sup>2</sup>	—	11,065,000	10,575,000	10,135,000	9,964,000	9,762,069	—	—	—	—	—
1921 <sup>2</sup>	—	8,433,000	7,637,000	6,537,000	8,340,000	7,953,541	—	—	—	—	—
1920 <sup>2</sup>	—	12,519,000	12,783,000	12,123,000	12,087,000	13,439,503	—	—	—	—	—
1919 <sup>2</sup>	—	11,016,000	11,280,000	10,696,000	11,030,000	11,420,763	—	—	—	—	—
1918 <sup>2</sup>	—	13,619,000	11,137,000	11,818,000	11,700,000	12,040,532	—	—	—	—	—
1917 <sup>2</sup>	—	15,325,000	12,949,000	12,047,000	10,949,000	11,302,375	—	—	—	—	—
1916 <sup>2</sup>	—	12,916,000	11,800,000	11,637,000	11,511,000	11,449,930	—	—	—	—	—
1915 <sup>2</sup>	—	14,266,000	—	10,950,000	11,161,000	11,191,820	—	—	—	—	—

<sup>1</sup> 1927 reports were dated August 1, September 1 and December 1.  
<sup>2</sup> 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8.  
<sup>3</sup> March, 1928, Ginning Report.

### Computation of Cotton Crop Condition

The following statement from the Bureau of Agricultural Economics outlines the method used to obtain the government cotton crop condition estimate:

The condition figures published by this Bureau are based upon a normal condition. A normal condition is such a condition as would be expected at the date to which the report relates if conditions are favorable to the crop; that is to say, assuming that good seed had been planted under favorable conditions and that the crop had not suffered material injury from drought, storms, insect pests, plant diseases, or other unfavorable influences. Normal is not an ideal condition, but represents something rather close to the average of good years. The bearing of condition is upon final yield per acre rather than upon total production, because condition does not involve the question of acreage.

The yield per acre to be expected from a condition of 100 per cent or normal for any month is determined each year by a study of the relation of condition in that month to final yield in previous years. The reported per cent of a normal June 25 condition would, of course, indicate a corresponding per cent of the established normal yield per acre for June 25. This promised yield per acre, being multiplied by the number of acres, gives an indication of total production. All such forecasts are based upon the assumption that conditions affecting the crop developing after the date of report will be average, and that the final yield will prove greater or less than the forecast according as such future influences prove more or less favorable than in an average year.

A condition in June of 71 would not necessarily indicate the same production as the same figure for the following month because conditions average higher in June than in July for most crops, and distinctly so for cotton. The comparison each month is with normal conditions for that month. While the conditions of 71 per cent normal in June might be 80 per cent of the June *average* condition, the same per cent of July normal might be 90 per cent of July *average* condition and indicate a correspondingly higher yield.



# Condition of American Cotton Crops on May 25<sup>1</sup>

Source: United States Department of Agriculture

STATE	1918	1919	1920	1921	1922	1923	1924	1925
Virginia . . . .	89	89	71	77	91	79	62	72
North Carolina . . . .	84	85	70	65	84	77	71	74
South Carolina . . . .	80	78	68	58	67	64	68	71
Georgia . . . . .	78	81	55	63	71	65	68	78
Florida . . . . .	75	75	62	60	85	87	77	88
Alabama . . . . .	78	78	58	57	80	70	70	80
Mississippi . . . . .	86	73	65	60	75	70	69	84
Louisiana . . . . .	85	74	72	57	70	68	70	84
Texas . . . . .	82	76	60	71	61	77	66	70
Arkansas . . . . .	85	68	61	70	76	66	58	85
Tennessee . . . . .	90	64	60	69	79	70	54	82
Missouri . . . . .	79	70	64	75	90	54	52	77
Oklahoma . . . . .	86	65	70	74	67	63	58	86
California . . . . .	91	91	86	75	84	93	91	98
Arizona . . . . .	90	—	80	84	81	92	90	90
New Mexico . . . . .	—	—	—	—	73	90	89	85
All other . . . . .	—	—	—	—	—	—	—	90
United States . . . . .	82.3	75.6	62.4	66.0	69.6	71.0	65.6	76.6

<sup>1</sup> No May 25 Cotton Crop Report for 1926 and 1927.

# Condition of American Cotton Crops on June 25<sup>1</sup>

Source: United States Department of Agriculture

STATE	1919	1920	1921	1922	1923	1924	1925	1926
Virginia . . . . .	82	73	70	85	90	61	83	62
North Carolina . . . . .	83	74	67	76	80	73	77	63
South Carolina . . . . .	78	74	65	60	64	69	70	55
Georgia . . . . .	72	63	64	58	56	75	76	70
Florida . . . . .	57	63	70	75	65	79	84	78
Alabama . . . . .	67	67	59	68	68	70	79	78
Mississippi . . . . .	63	69	67	76	67	74	88	78
Louisiana . . . . .	61	77	64	69	69	78	81	73
Texas . . . . .	69	71	72	72	77	70	64	80
Arkansas . . . . .	64	72	78	80	66	68	87	79
Tennessee . . . . .	64	69	74	83	67	67	85	72
Missouri . . . . .	60	72	80	92	62	60	90	80
Oklahoma . . . . .	69	77	75	76	64	72	88	78
California . . . . .	99	83	77	91	91	90	95	99
Arizona . . . . .	93	80	88	85	92	92	92	91
New Mexico . . . . .	—	—	—	—	80	80	88	80
All other . . . . .	—	—	—	—	—	72	94	74
United States . . . . .	70.0	70.7	69.2	71.2	69.9	71.2	75.9	75.4

<sup>1</sup> No June 25 Cotton Crop Report for 1927.

**Condition of American Cotton Crops on July 25**

Source: United States Department of Agriculture

STATE	1920	1921	1922	1923	1924	1925 <sup>1</sup>	1926 <sup>1</sup>	1927 <sup>2</sup>
Virginia . . . . .	74	82	80	88	54	76	71	75
North Carolina . . . .	77	75	78	82	56	77	68	78
South Carolina . . . .	77	62	60	64	59	71	55	66
Georgia . . . . .	68	59	54	48	76	74	61	65
Florida . . . . .	64	60	65	52	76	82	80	71
Alabama . . . . .	67	58	70	66	70	78	71	70
Mississippi . . . . .	71	68	74	65	70	83	70	68
Louisiana . . . . .	71	59	70	68	66	76	71	64
Texas . . . . .	74	62	72	71	69	56	73	69
Arkansas . . . . .	78	76	81	68	70	85	72	68
Tennessee . . . . .	76	75	85	69	68	79	71	69
Missouri . . . . .	81	80	90	70	65	80	79	61
Oklahoma . . . . .	85	68	75	63	72	76	78	75
California . . . . .	85	83	95	88	90	92	99	90
Arizona . . . . .	85	89	86	91	94	94	89	85
New Mexico . . . . .	—	88	85	85	83	82	84	83
All other . . . . .	—	—	—	—	70	79	73	67
United States . . . . .	74.1	64.7	70.8	67.2	68.5	70.4	70.7	69.5

<sup>1</sup> Condition on July 16. Change due to the inauguration of semi-monthly reports.<sup>2</sup> Condition on August 1.**Condition of American Cotton Crops on August 25**

Source: United States Department of Agriculture

STATE	1920	1921	1922	1923	1924	1925 <sup>1</sup>	1926 <sup>1</sup>	1927 <sup>2</sup>
Virginia . . . . .	81	63	68	93	62	79	65	70
North Carolina . . . .	79	62	65	71	59	75	73	64
South Carolina . . . .	71	50	46	57	59	53	53	48
Georgia . . . . .	58	41	44	42	70	61	56	55
Florida . . . . .	57	59	60	30	72	78	70	58
Alabama . . . . .	58	53	60	52	70	70	65	58
Mississippi . . . . .	60	57	60	48	65	77	67	57
Louisiana . . . . .	55	45	60	53	50	65	64	55
Texas . . . . .	67	42	59	55	61	46	61	56
Arkansas . . . . .	75	63	63	57	71	79	67	55
Tennessee . . . . .	75	74	65	64	72	82	70	60
Missouri . . . . .	83	78	70	67	70	81	74	52
Oklahoma . . . . .	84	48	53	46	75	74	66	51
California . . . . .	80	83	91	88	90	93	94	90
Arizona . . . . .	86	85	87	90	85	92	83	90
New Mexico . . . . .	—	—	85	88	92	77	86	90
All other . . . . .	—	—	—	—	75	92	79	77
United States . . . . .	67.5	49.3	57.0	54.1	64.9	62.0	63.5	56.1

<sup>1</sup> Condition on August 16.<sup>2</sup> Condition on September 1.

# Condition of American Cotton Crops on September 25

Source: United States Department of Agriculture

STATE	1920	1921	1922	1923	1924	1925 <sup>1</sup>	1926 <sup>1</sup>	1927 <sup>2</sup>
Virginia . . . . .	72	53	63	83	60	64	66	64
North Carolina . . . . .	68	54	59	64	52	62	69	57
South Carolina . . . . .	62	40	38	53	47	43	55	44
Georgia . . . . .	51	33	37	31	59	53	56	54
Florida . . . . .	50	50	55	20	71	71	65	57
Alabama . . . . .	49	46	55	42	59	64	62	60
Mississippi . . . . .	50	48	54	37	57	73	62	58
Louisiana . . . . .	47	41	53	45	48	70	58	54
Texas . . . . .	61	38	52	56	52	42	57	55
Arkansas . . . . .	65	53	57	50	59	64	59	54
Tennessee . . . . .	66	62	56	47	60	60	54	56
Missouri . . . . .	75	70	70	64	63	64	61	50
Oklahoma . . . . .	70	38	42	49	64	55	62	44
California . . . . .	78	73	80	84	77	90	92	91
Arizona . . . . .	90	81	80	90	72	92	81	87
New Mexico . . . . .	-	-	-	84	85	85	90	85
All other . . . . .	-	-	-	-	77	75	69	69
United States . . . . .	59.1	42.2	50.0	49.5	55.4	53.8	59.5	54.2

<sup>1</sup> Condition on September 16.

<sup>2</sup> Condition on October 1.

# Condition of American Cotton Crop on Reporting Dates in 1927

Source: United States Department of Agriculture

STATE	Aug. 1, 1927	Sept. 1, 1927	Oct. 1, 1927
Virginia . . . . .	75	70	64
North Carolina . . . . .	78	64	57
South Carolina . . . . .	66	48	44
Georgia . . . . .	65	55	54
Florida . . . . .	71	58	57
Alabama . . . . .	70	58	60
Mississippi . . . . .	68	57	58
Louisiana . . . . .	64	55	54
Texas . . . . .	69	56	55
Arkansas . . . . .	68	55	54
Tennessee . . . . .	69	60	56
Missouri . . . . .	61	52	50
Oklahoma . . . . .	75	51	44
California . . . . .	90	90	91
Arizona . . . . .	85	90	87
New Mexico . . . . .	83	90	85
All other . . . . .	67	77	69
United States . . . . .	69.5	56.1	54.2

## United States Cotton Production, per Acre, by States

[In pounds]

Source: United States Department of Agriculture

STATE	1919	1920	1921	1922	1923	1924	1925	1926	1927 <sup>1</sup>
United States	161.5	178	124.5	141.3	130.6	157.4	167.7	182.6	152.3
Alabama .	122	111	124	142	91	154	185	196	178
Arizona .	270	224	242	222	292	285	350	349	325
Arkansas .	155	195	161	173	98	169	205	195	154
California	268	266	258	188	285	284	340	387	352
Florida .	74	86	80	102	40	130	180	145	122
Georgia .	152	138	90	100	82	157	155	180	154
Louisiana .	93	126	114	144	125	145	232	200	167
Mississippi .	160	145	148	157	91	176	275	241	192
Missouri .	257	275	325	360	171	185	275	240	177
New Mexico .	—	—	—	—	230	266	298	299	352
North Carolina	266	275	264	250	290	196	261	292	237
Oklahoma .	195	230	104	103	98	187	155	181	138
South Carolina	240	260	140	123	187	160	160	182	145
Tennessee .	195	185	228	190	92	170	210	188	175
Texas .	140	174	98	130	147	138	143	147	126
Virginia .	255	230	230	230	325	180	250	264	230
All other .	—	—	—	—	226	164	214	189	166

<sup>1</sup> Data for 1927 are preliminary estimates.

## Average Grades of Recent Cotton Crops

Henry G. Hester, Secretary of the New Orleans Cotton Exchange, computes the average grades of recent American cotton crops to have been as follows:

1916-17, middling to strict middling.  
 1917-18, middling.  
 1918-19, barely middling.  
 1919-20, strict low middling.  
 1920-21, barely middling.  
 1921-22, middling.  
 1922-23, middling.  
 1923-24, strict low middling to middling.  
 1924-25, middling.  
 1925-26, strict low middling.  
 1926-27, strict low middling to middling.

# United States Production of Cotton and Linters

Source: United States Bureau of the Census

GROWTH YEAR	COTTON, EXCLUSIVE OF LINTERS		LINTERS		COTTON, INCLUDING LINTERS	
	Running Bales, counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales, counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight
1902	10,588,250	10,630,945	196,223	196,223	10,784,473	10,827,168
1903	9,819,969	9,851,129	195,752	194,486	10,015,721	10,045,615
1904	13,451,337	13,438,012	245,973	241,942	13,697,310	13,679,954
1905	10,495,105	10,575,017	230,497	229,539	10,725,602	10,804,556
1906	12,983,201	13,273,809	322,064	321,689	13,305,265	13,595,498
1907	11,057,822	11,107,179	268,060	268,282	11,325,882	11,375,461
1908	13,086,005	13,241,799	346,126	345,507	13,432,131	13,587,306
1909	10,072,731	10,004,949	313,478	310,433	10,386,209	10,315,382
1910	11,568,334	11,608,616	397,628	397,072	11,965,962	12,005,688
1911	15,553,073	15,692,701	556,276	557,575	16,109,349	16,250,276
1912	13,488,539	13,703,421	602,324	609,594	14,090,863	14,313,015
1913	13,982,811	14,156,486	631,153	638,881	14,613,964	14,795,367
1914	15,905,840	16,134,930	832,401	856,900	16,738,241	16,991,830
1915	11,068,173	11,191,820	944,640	931,141	12,012,813	12,122,961
1916	11,363,915	11,449,930	1,300,163	1,330,714	12,664,078	12,780,644
1917	11,248,242	11,302,375	1,096,422	1,125,719	12,344,664	12,428,094
1918	11,906,480	12,040,532	910,236	929,516	12,816,716	12,970,048
1919	11,325,532	11,420,763	595,093	607,969	11,920,625	12,028,732
1920	13,270,970	13,439,603	429,005	440,313	13,699,975	13,879,916
1921	7,977,778	7,953,641	382,375	397,752	8,360,153	8,351,393
1922	9,729,306	9,762,069	590,537	607,779	10,319,843	10,369,848
1923	10,170,694	10,139,671	639,540	668,600	10,810,234	10,808,271
1924	13,639,399	13,627,936	857,962	897,375	14,497,361	14,525,311
1925	16,122,516	16,103,679	1,044,495	1,114,877	17,167,011	17,218,556
1926	17,755,070	17,977,374	1,041,864	1,157,861	18,796,934	19,135,235

## Summary of Commercial Crops of American Cotton

[In running bales, including linters]

Source: New Orleans Cotton Exchange

	1922-23	1923-24	1924-25	1925-26	1926-27
Port receipts . . .	5,935,645	6,591,008	9,557,735	10,037,603	12,902,055
Overland to mills . .	1,267,819	880,814	1,294,406	1,517,750	1,628,931
Southern consumption .	4,487,535	3,985,328	4,380,118	4,778,926	5,471,391
Total movement . .	11,690,999	11,817,150	15,232,259	16,334,279	20,002,377
Less taken by southern mills from ports . .	408,193	526,753	533,903	719,572	796,448
Total crops . . .	11,282,806	11,290,397	14,698,356	15,614,707	19,205,929

## United States Commercial Crops of Cotton

Source: New Orleans Cotton Exchange

STATE	1922-23	1923-24	1924-25	1925-26	1926-27
Alabama . . . . .	981,000	710,000	1,042,000	1,244,000	1,523,000
Arkansas . . . . .	1,118,000	725,000	1,163,000	1,443,000	1,803,000
Florida . . . . .	30,000	15,000	21,000	41,000	35,000
Georgia . . . . .	1,035,000	790,000	1,135,000	1,174,000	1,615,000
Louisiana . . . . .	368,000	394,000	515,000	833,000	843,000
Oklahoma . . . . .	664,000	705,000	1,610,000	1,606,000	1,846,000
Mississippi . . . . .	1,108,000	758,000	1,220,000	1,847,000	1,971,000
North Carolina, etc. <sup>1</sup> . . . . .	1,068,000	1,262,000	972,000	1,138,000	1,407,000
South Carolina . . . . .	799,000	920,000	903,000	910,000	1,093,000
Tennessee, etc. <sup>2</sup> . . . . .	675,000	609,000	878,000	1,133,000	1,172,000
Texas . . . . .	3,437,000	4,402,000	5,239,000	4,246,000	5,898,000
Total crop . . . . .	11,283,000	11,290,000	14,698,000	15,615,000	19,206,000

<sup>1</sup> Including Virginia and Kentucky.

<sup>2</sup> Including Missouri, California, Arizona, etc.

## United States Production of Cotton, Exclusive of Linters

[Running bales, counting round as half bales]

Source: United States Bureau of the Census

STATE	1922	1923	1924	1925	1926	1927 <sup>1</sup>
Alabama . . . . .	819,870	599,140	985,653	1,356,402	1,470,404	1,173,303
Arizona . . . . .	44,132	77,704	109,950	115,359	120,089	90,215
Arkansas . . . . .	1,010,520	643,643	1,086,814	1,594,389	1,513,382	979,159
California . . . . .	28,473	55,313	79,938	122,260	128,835	89,998
Florida . . . . .	27,428	13,628	19,756	40,208	33,231	17,361
Georgia . . . . .	735,874	612,812	1,030,202	1,192,952	1,498,473	1,110,923
Louisiana . . . . .	345,407	373,812	498,396	912,246	826,179	542,576
Mississippi . . . . .	985,787	622,617	1,116,350	1,985,524	1,857,525	1,346,201
Missouri . . . . .	139,881	124,676	192,981	292,950	215,769	115,558
New Mexico . . . . .	—	28,333	55,858	64,706	70,206	64,876
North Carolina . . . . .	879,294	1,053,402	860,147	1,147,340	1,246,754	879,071
Oklahoma . . . . .	637,003	665,904	1,506,077	1,680,304	1,760,644	1,009,104
South Carolina . . . . .	517,464	793,817	837,815	929,040	1,025,991	738,529
Tennessee . . . . .	385,860	235,344	355,919	513,130	442,052	355,685
Texas . . . . .	3,125,758	4,212,248	4,850,956	4,098,249	5,477,788	4,227,750
Virginia . . . . .	27,011	51,982	40,180	54,016	51,891	30,523
All other states . . . . .	19,544	6,319	12,417	23,441	15,857	6,673
Total . . . . .	9,729,306	10,170,594	13,639,399	16,122,516	17,755,070	12,777,505

<sup>1</sup> March, 1928, preliminary report.

## Active and Idle Gineries in the United States and Average Number of Running Bales ginned per Active Establishment

Source: United States Bureau of the Census

GROWTH YEAR	Total Gineries	Active Gineries	Idle Gineries	Bales ginned per Establishment
1916 . . . . .	25,999	21,624	4,375	526
1917 . . . . .	24,272	20,351	3,921	553
1918 . . . . .	23,439	19,259	4,180	618
1919 . . . . .	22,418	18,815	3,603	602
1920 . . . . .	21,876	18,440	3,436	720
1921 . . . . .	20,938	16,192	4,746	493
1922 . . . . .	19,939	15,420	4,519	631
1923 . . . . .	19,195	15,298	3,897	665
1924 . . . . .	18,656	15,478	3,178	881
1925 . . . . .	18,262	15,482	2,780	1,041
1926 . . . . .	18,179	15,753	2,426	1,127

## Estimated Values of Cotton and Cotton Seed produced

Source: United States Bureau of the Census

GROWTH YEAR	Value of Cotton produced	Value of Cotton Seed produced	Total Value of Cotton Crop
1916 . . . . .	\$994,060,000	\$259,070,000	\$1,253,130,000
1917 . . . . .	1,532,690,000	333,550,000	1,866,240,000
1918 . . . . .	1,737,710,000	349,490,000	2,087,200,000
1919 . . . . .	2,030,960,000	340,470,000	2,371,430,000
1920 . . . . .	1,067,240,000	136,990,000	1,204,230,000
1921 . . . . .	675,630,000	104,560,000	780,190,000
1922 . . . . .	1,117,060,000	150,400,000	1,267,460,000
1923 . . . . .	1,455,170,000	190,050,000	1,645,220,000
1924 . . . . .	1,561,010,000	206,220,000	1,767,230,000
1925 . . . . .	1,577,480,000	220,360,000	1,797,840,000
1926 . . . . .	1,121,115,000	172,120,000	1,293,235,000

## Yearly Average Prices of Cotton and Cotton Seed paid to Producers in the United States

Source: United States Bureau of the Census

CROP YEAR	Yearly Average Price of Lint Cotton per Pound (in Cents)	Yearly Average Price of Cotton Seed per Ton
1916 . . . . .	17.28	\$50.50
1917 . . . . .	27.12	66.08
1918 . . . . .	28.76	65.32
1919 . . . . .	35.36	67.18
1920 . . . . .	15.89	22.92
1921 . . . . .	16.90	29.72
1922 . . . . .	22.85	34.70
1923 . . . . .	28.70	42.22
1924 . . . . .	22.91	34.16
1925 . . . . .	19.59	30.88
1926 . . . . .	12.47	21.63

## Cotton ginned to Specified Dates and throughout the Season

[Running bales, except that round bales are counted as half bales. Linters are not included]

Source: United States Bureau of the Census

COTTON GINNED TO —	YEAR OF GROWTH					
	1922	1923	1924	1925	1926	1927 <sup>1</sup>
September 1	806,189	1,142,660	947,494	1,886,399	693,556	1,540,025
September 25	3,866,396	3,235,974	4,527,668 <sup>2</sup>	7,126,248 <sup>2</sup>	2,509,103 <sup>2</sup>	3,505,552 <sup>2</sup>
October 18	6,978,321	6,409,391	7,615,981	9,518,946	8,727,709	8,118,978
November 1	8,139,215	7,556,042	9,715,643	11,207,197	11,258,873	9,925,795
November 14	8,869,978	8,369,498	11,162,235	12,260,352	12,956,444	10,899,182
December 1	9,319,601	9,243,380	12,237,659	13,870,507	14,644,070	11,742,806
December 13	9,488,852	9,549,015	12,792,294	14,831,846	15,540,804	12,071,799
January 1	9,597,330	9,811,038	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>
January 16	9,648,261	9,944,032	13,306,813	15,499,893	16,616,075	12,501,845
Total gin- nings	9,729,306	10,170,594	13,639,399	16,122,516	17,755,070	12,777,505

<sup>1</sup> March, 1928, preliminary report.

<sup>2</sup> Ginned to September 16.

<sup>3</sup> No ginning report.

## Per Cent of Total Cotton ginned to Specified Dates

Source: United States Bureau of the Census

PER CENT GINNED TO —	YEAR OF GROWTH						
	1921	1922	1923	1924	1925	1926	1927 <sup>1</sup>
September 1	6.1	8.3	11.2	7.0	11.7	3.9	12.1
September 25	36.6	39.7	31.8	33.1 <sup>2</sup>	44.1 <sup>2</sup>	14.1	27.4
October 18	68.9	71.7	63.0	55.9	59.0	49.2	63.5
November 1	83.3	83.7	74.3	71.2	69.6	63.4	77.7
November 14	91.2	91.2	82.3	81.8	76.0	69.0	85.3
December 1	95.8	95.8	90.9	89.6	86.0	82.4	91.9
December 13	97.7	97.5	93.9	93.6	92.0	87.5	94.4
January 1	98.8	98.6	96.4	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>
January 16	99.2	99.2	97.8	97.7	96.1	93.5	97.8

<sup>1</sup> Preliminary estimates.

<sup>2</sup> Ginned to September 16.

<sup>3</sup> No ginning report.



# Estimated Quantity of Cotton Seed produced, Quantity of Cotton Seed crushed, and Quantities and Values of Crude Products obtained

Statistics of the quantity of seed produced relate to the preceding crop year. Those of the quantity crushed and of the quantities and values of products obtained relate to the year ending July 31.

Source: United States Bureau of the Census

YEAR	Cotton Seed produced (Tons)	Cotton Seed crushed (Tons)	Total Value of Products	Quantity of Oil (Gallons)	Value of Oil	Quantity of Cake and Meal (Tons)	Value of Cake and Meal	Quantity of Halls (Tons)	Value of Halls	Quantity of Linters (Running Bales)	Value of Linters
1913	6,104,000	4,579,508	\$132,230,000	185,750,000	\$69,100,000	1,999,000	\$45,970,000	1,540,000	\$9,710,000	602,324	\$7,450,000
1914	6,305,000	4,817,628	159,670,000	193,330,000	81,020,000	2,220,000	59,810,000	1,400,000	11,210,000	631,153	7,630,000
1915	7,186,000	5,779,665	152,880,000	229,260,000	80,510,000	2,648,000	57,740,000	1,677,000	8,450,000	832,401	6,150,000
1916	4,992,000	4,202,313	180,260,000	167,110,000	87,940,000	1,923,000	53,860,000	1,220,000	12,340,000	944,640	26,120,000
1917	5,113,000	4,479,176	287,192,000	187,688,000	153,419,000	2,225,000	74,586,000	969,000	13,991,000	1,300,163	45,193,000
1918	5,040,000	4,251,680	360,736,000	174,996,000	217,902,000	2,068,000	97,352,000	996,000	18,878,000	1,036,422	26,604,000
1919	5,360,000	4,478,508	383,580,000	176,711,000	227,316,000	2,170,000	116,119,000	1,137,000	17,917,000	910,236	22,228,000
1920	5,074,000	4,012,704	352,138,000	161,529,000	209,668,000	1,817,000	119,639,000	1,143,000	11,095,000	595,093	12,336,000
1921	5,971,000	4,069,166	156,513,000	174,558,000	84,650,000	1,786,000	58,298,000	1,256,000	10,059,000	429,005	3,506,000
1922	3,531,000	3,007,717	136,974,000	124,063,000	71,508,000	1,355,000	49,808,000	937,000	8,949,000	382,375	6,619,000
1923	4,336,000	3,241,557	173,254,000	133,723,000	84,818,000	1,487,000	59,037,000	944,000	12,200,000	590,537	17,199,000
1924	4,502,000	3,307,598	182,137,000	130,616,000	88,093,000	1,518,000	59,300,000	941,000	12,737,000	639,540	22,007,000
1925	6,051,000	4,605,227	240,855,000	187,170,824	126,665,000	2,125,618	79,173,000	1,330,764	13,749,000	857,962	21,268,000
1926	7,150,000	5,558,243	256,027,000	215,601,963	138,652,000	2,596,715	81,508,000	1,547,351	12,649,000	1,044,495	23,219,000
1927	7,989,000	6,305,775	240,284,000	251,721,354	142,242,000	2,810,084	72,476,000	1,854,389	8,882,000	1,041,864	16,684,000

## Review of Last Seven American Cotton Crops, 1921 to 1927

**1921.** The 1921 cotton crop was notable, not only on account of its smallness, but also because of the unusual degree to which the government and the trade misjudged its size until after picking was practically completed. As a result of the great decline in the price of the staple during the preceding season, a determined campaign was conducted throughout the belt to reduce the acreage, and the general impression through most of the growing season was that the area planted had actually been cut by fully 25 per cent as compared with 1920. This was confirmed by the Department of Agriculture, which reported in June that the acreage was 28.4 per cent less than the year previous and aggregated only 26,519,000 acres. At the very beginning of the season, weather conditions were generally favorable, but later, during April, excessive rains and low temperatures did much damage and forced a great deal of replanting. May was more propitious, and in June the crop continued to make some progress, but on the whole the crop was in a very unsatisfactory condition at the end of June. Usually a low condition in one section of the belt is offset by fair to good conditions elsewhere, but in 1921 the condition at the close of June was low in almost all sections. In July the crop continued to lose ground slowly, and in August it deteriorated rapidly, largely due to an extensive drought in Texas, Oklahoma and Louisiana, excessive rains in some parts of the belt east of the Mississippi, and extraordinary ravages by the boll weevil. The result of all these adverse factors was that the government announced in September that the condition as of August 25 warranted a forecast of only 7,037,000 bales, and in October, taking the condition of September 25 as a basis, it predicted a crop of only 6,537,000 bales. These estimates, however, proved to be unduly low, not so much because of underestimating the yield per acre as because, as it was afterward shown, the acreage itself had been greatly understated. In December the Department announced that it was obliged, by information that it had received during the latter part of the season, to raise its estimate of the acreage from 26,519,000 to 31,678,000 acres. Only 30,509,000 acres were harvested, yielding 124.5 per acre. The crop totalled only 7,977,778 running bales exclusive of linters, and was the smallest in size since 1895. Linters aggregated 382,375 bales, making the total crop, including linters, 8,360,153.

**1922.** The boll weevil held the centre of the stage during 1922. It was hoped that after the small 1921 crop, 1922 would bring a pre-war normal, or at least one around 12,000,000 bales, but on June 25 the government forecast of 11,065,000 bales and 34,016,000 acres, and a

month later of 11,449,000 bales dampened this somewhat. The season, however, was late, and heavy rains and low temperatures kept the crop back. Replanting was necessary in many instances and caused the weevil to be even more formidable as the advantage to be gained by an early start was lost. Drought in the Western States which mitigated against the pest also affected the crop seriously, so that hopes for a fair yield per acre were soon dissipated. The critical months of July and August brought an unusual condition. Would the poorly rooted crop resulting from a wet spring be damaged by hot weather unfavorable to the weevil? The answer was a split between hot weather damage in the Southwest and the boll weevil in the East. As a result the crop estimate fell to 10,575,000 bales on August 25 and to 10,135,000 on September 25. Picking and ginning were rapid, and growers were disposed to sell just as rapidly, so the crop came on the market speedily. The December forecast of 9,964,000 caused further disappointment. Actual production amounted to 9,762,069 bales from 33,036,000 acres, or a yield of 141.5 pounds per acre.

**1923.** The tremendous acreage of 38,287,000 was under cultivation on June 25, as it was expected the world would readily consume a large crop after the small production of the two previous years. Unfortunately weather conditions were not propitious. A season which promised to be early turned out late. Much rain fell in the East during August, and the temperature was below normal. In the West, especially Texas and Oklahoma, a severe drought extended through July and August. The government forecast fell from 11,412,000 bales on June 25 to 10,081,000 in December. The March report of cotton ginned was 10,128,478 bales of 500 pounds each, and indicates a yield of 128.8 pounds per acre, based on 37,420,000 acres harvested. It seems weather conditions and not the boll weevil should be emphasized in discussing the 1923 crop. The weevil can be controlled, but the weather cannot. The weather, furthermore, is the supreme factor in raising cotton, and it must be acknowledged that in recent years excessive rain and drought have been to a great extent determining causes of small production.

**1924.** The crop of 1924 was one of surprises. The planting season was wet and cold. Many growers feared this would counteract the effects of the cold weather which had greatly reduced the number of boll weevils. May, however, proved a favorable month, and the record-breaking acreage planted (41,390,000) gave rise to hopes of a large crop.

June marked the beginning of a long drought which persisted in nearly all sections throughout the season. The crop withstood the dry weather satisfactorily as a result of the ample moisture in the soil. As

the season progressed favorable conditions caused both government and private forecasts of the crop to be increased steadily. The much-discussed semi-monthly forecasts of the Department of Agriculture were inaugurated during the season of 1924.

The fall weather proved nearly ideal for harvesting the crop, and picking and ginning were carried on at a record pace. The March ginning report shows a crop of 13,618,751 bales, the largest crop in ten years. This figure indicates a yield of 162 pounds per acre as compared with the five-year average yield of 147 pounds per acre.

The boll weevil, a factor of utmost importance in previous years, did not play an important part in 1924. The cold winter and dry summer conspired to reduce the number of weevils very materially. The small amount of weevil damage and the large acreage planted were the outstanding features of the year's cotton crop.

**1925.** The planting season of 1925 started favorably, and a very large acreage was planted to cotton throughout the South. In fact, the acreage planted in 1925 established a new record, the government estimate of June 25 giving a figure of 46,448,000 acres. Later developments were less favorable, however, and considerable replanting became necessary in certain sections.

In midsummer a large part of the western half of the belt began to suffer from lack of moisture. The drought which was especially serious in southern Texas was not relieved until fall, so that over a considerable area the crop was practically a failure and many fields were completely abandoned. Outside of this southwestern territory, which was affected by abnormally light rainfall, the crop progressed satisfactorily in practically all sections.

The rather hot and dry weather which prevailed during a large part of the season aided in keeping the weevil in check, so that comparatively little damage was suffered from this cause.

The large acreage planted permitted and made possible a satisfactory crop in spite of the failure of some relatively limited areas. The March ginning report indicates a crop of 16,103,586 bales, the largest in ten years. One outstanding feature of the year's growth was the very large quantities of low grades produced, especially in some sections where replanting had made the crop late.

**1926.** The cotton crop of 1926 was the largest in history. The March ginning report shows a total of 17,687,607 bales, or approximately one and one-half million bales more than the previous high. This figure may be increased slightly, as picking was still going on at the time of the ginning report.

The growing season of 1926 was one of contradictions. Due to weather conditions the crop as a whole was from one to three weeks

late, and throughout June, July and August there were alternate reports of too much or too little rain.

A new pest, the cotton flea or hopper, at one time was thought to be a serious menace, but did not prove to be. The army worm infested a large area in Texas and was thought to have done irretrievable damage, but the stripping of the leaves from the plants apparently helped the crop by letting the sun through on to the lower bolls so that there was a very uniform maturity with a comparatively high yield.

A large crop was indicated in the government report of June 25 with 48,898,000 acres in cultivation. The early season reports predicted a crop of from fifteen to fifteen and one-half million bales, and as late as the last of September private reports averaged around fourteen and three-fourths million bales.

The reported insect damage and unfavorable weather in addition to the light ginnings up to the last of September seemed to substantiate the private reports. It was not until the October 18 Bureau report, when the estimate jumped to 17,454,000 bales, that the real size of the crop was apparent.

Sledge cotton became an appreciable factor for the first time, and large quantities of cotton, too low in grade to be tenderable on contract, resulted. The crop as a whole was low grade due to the weather conditions but was unusually free from tinges and stains due to the late frost. One of the unusual features of the season was the inauguration by the Bureau of a high, low, and average estimate in the cotton crop reports.

**1927.** It was apparent early in the season that the 1927 cotton crop would be materially less than the record-breaking crop of 1926. The early private estimates of the acreage varied considerably, and it was not until the government report of July 9 of 42,683,000 acres, a decrease of about 6,000,000 acres from the previous year, that there was a real basis on which to base estimates.

The government estimates showed little variation throughout the entire crop-reporting season, varying less than a million bales from the first estimate of 13,492,000 bales as of August 1 to the last estimate of 12,784,000 as of December 1. Probably no crop estimates have been more nearly accurate throughout the season than the government estimates of 1927, the final ginning report of March 20 showing a yield of 12,777,505 bales. The private estimates tended to be higher than the government estimates throughout the season.

The devastating flood of the Mississippi River, coming as it did at the planting season, caused much uncertainty in the amount of land available for staple cotton.

Planting over a large part of the area followed immediately after the

recession of the flood, but because of the lateness of the planting it was reported that some growers substituted short staple, early maturing seed in place of the usual seed.

The crop from the flooded area was approximately one and one-half million bales less than the previous season.

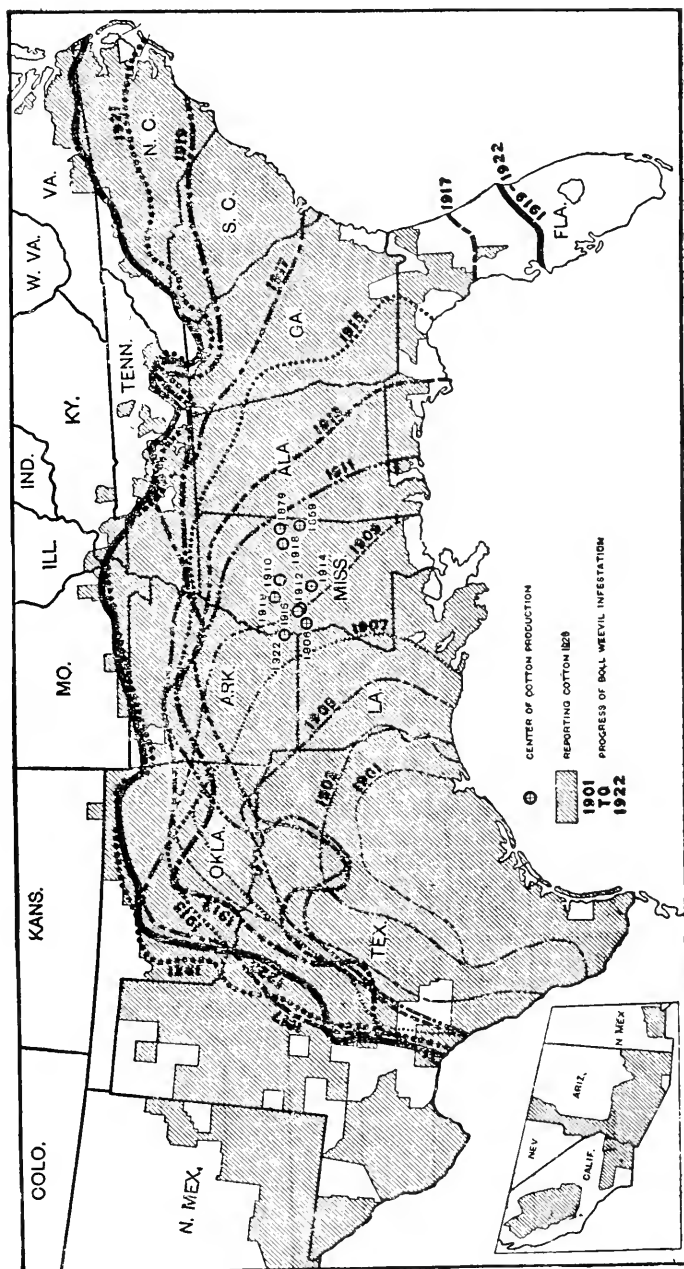
Heavy weevil infestation was reported particularly in the eastern part of the Belt. Weevil damage, however, was not as severe as in some of the previous seasons.

The average grade of the crop was high, and as a result the low grades brought a relatively higher price than in 1926, when the large crop of low-grade cotton depressed the price of the low grades.

One of the unusual incidents of the season was the publishing of a report by the Department of Agriculture in September that the level of cotton price was too high, and predicting that there probably would be a drop in the price of cotton. This prediction caused an immediate drop in the price.

The Department of Agriculture again changed its method of reporting, confining itself to monthly estimates from August to December, inclusive, doing away with the estimates of high, low and average of the previous year.

# The American Cotton Belt



# World's Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —		1923-24		1924-25		1925-26		1926-27	
		Week	Season	Week	Season	Week	Season	Week	Season
August	6	51	51	18	18	—	—	150	150
	13	111	162	82	100	155	155	180	330
	20	97	259	155	255	172	327	172	502
	27	96	355	105	360	161	488	194	696
September	3	114	469	135	495	147	635	236	932
	10	164	633	155	650	241	876	220	1,152
	17	159	792	178	828	241	1,117	253	1,405
	24	184	976	193	1,021	299	1,416	274	1,679
October	1	235	1,211	201	1,222	288	1,704	338	2,017
	8	302	1,513	304	1,526	290	1,994	377	2,394
	15	354	1,867	306	1,832	347	2,341	455	2,849
	22	361	2,228	359	2,191	420	2,761	451	3,300
	29	388	2,616	367	2,558	465	3,226	451	3,751
November	5	327	2,943	365	2,923	472	3,698	425	4,176
	12	341	3,284	348	3,271	463	4,161	459	4,635
	19	384	3,668	398	3,669	420	4,581	441	5,076
	26	394	4,062	511	4,180	457	5,038	466	5,542
December	3	358	4,420	429	4,609	414	5,452	476	6,018
	10	331	4,751	425	5,034	444	5,896	460	6,478
	17	320	5,071	419	5,453	515	6,411	445	6,923
	24	294	5,365	367	5,820	405	6,816	430	7,353
	31	272	5,637	348	6,168	385	7,201	399	7,752
January	7	258	5,895	338	6,506	371	7,572	352	8,104
	14	289	6,184	409	6,915	359	7,931	352	8,456
	21	289	6,473	423	7,338	354	8,285	389	8,849
	28	239	6,712	309	7,647	324	8,609	409	9,254
February	4	295	7,007	357	8,004	349	8,958	448	9,702
	11	232	7,239	396	8,400	340	9,298	481	10,183
	18	226	7,465	344	8,744	298	9,596	417	10,600
	25	214	7,679	386	9,130	322	9,918	376	10,976
March	4	200	7,879	320	9,450	278	10,196	430	11,406
	11	176	8,055	350	9,800	308	10,504	426	11,832
	18	223	8,278	350	10,150	293	10,797	432	12,264
	25	155	8,433	378	10,528	284	11,081	407	12,671
April	1	173	8,606	356	10,884	265	11,346	335	13,006
	8	192	8,798	320	11,204	241	11,587	304	13,310
	15	192	8,990	247	11,451	253	11,840	333	13,643
	22	177	9,167	220	11,671	218	12,058	274	13,917
	29	193	9,360	214	11,885	238	12,296	368	14,285
May	6	160	9,520	283	12,168	266	12,562	415	14,700
	13	178	9,698	242	12,410	181	12,743	374	15,074
	20	194	9,892	265	12,675	165	12,908	317	15,391
	27	157	10,049	237	12,912	252	13,160	266	15,657
June	3	137	10,186	203	13,115	181	13,341	288	15,945
	10	141	10,327	198	13,313	228	13,569	250	16,195
	17	54	10,381	203	13,516	212	13,781	333	16,528
	24	100	10,481	194	13,710	188	13,969	344	16,872
July	1	129	10,610	165	13,875	183	14,152	274	17,146
	8	114	10,724	150	14,025	200	14,352	296	17,442
	15	128	10,852	180	14,205	140	14,492	186	17,628
	22	94	10,946	157	14,362	187	14,679	216	17,844
	29	113	11,059	171	14,533	189	14,868	284	18,128
	30	85	11,144	236	14,769	215	15,083	69	18,197



# American (including Canadian) Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —		1923-24		1924-25		1925-26		1926-27	
		Week	Season	Week	Season	Week	Season	Week	Season
August	6	31	31	8	8	52	52	63	63
	13	46	77	43	51	64	116	92	155
	20	43	120	41	92	60	176	74	229
	27	36	156	60	152	63	239	67	296
September	3	48	204	52	204	154	393	102	398
	10	101	305	88	292	153	546	117	515
	17	105	410	86	378	173	719	160	675
	24	118	528	118	496	182	901	172	847
October	1	128	656	118	614	166	1,067	174	1,021
	8	184	840	161	775	189	1,256	222	1,243
	15	199	1,039	167	942	263	1,519	237	1,580
	22	249	1,288	188	1,130	282	1,801	246	1,826
	29	243	1,531	199	1,329	281	2,082	258	2,084
November	5	193	1,724	230	1,559	219	2,301	238	2,322
	12	210	1,934	194	1,753	242	2,543	240	2,562
	19	236	2,170	227	1,980	231	2,774	229	2,791
	26	240	2,410	233	2,213	204	2,978	233	3,024
December	3	248	2,658	256	2,469	261	3,239	234	3,258
	10	180	2,838	229	2,698	269	3,508	236	3,494
	17	169	3,007	208	2,906	200	3,708	221	3,715
	24	181	3,188	191	3,097	176	3,884	209	3,924
	31	147	3,335	165	3,262	192	4,076	197	4,121
January	7	132	3,467	193	3,455	189	4,265	165	4,286
	14	156	3,623	188	3,643	171	4,436	183	4,469
	21	142	3,765	207	3,850	134	4,570	165	4,634
	28	130	3,895	156	4,006	128	4,698	162	4,796
February	4	134	4,029	161	4,167	175	4,873	200	4,996
	11	132	4,161	190	4,357	172	5,045	197	5,193
	18	118	4,279	169	4,526	135	5,180	174	5,367
	25	97	4,376	171	4,697	122	5,302	156	5,523
March	4	96	4,472	159	4,856	135	5,437	194	5,717
	11	82	4,554	173	5,029	136	5,573	176	5,893
	18	83	4,637	165	5,194	126	5,699	181	6,074
	25	83	4,720	170	5,364	123	5,822	162	6,232
April	1	79	4,799	171	5,535	120	5,942	128	6,364
	8	83	4,882	118	5,653	121	6,063	119	6,483
	15	64	4,946	100	5,753	102	6,165	110	6,593
	22	67	5,013	109	5,862	94	6,259	133	6,726
	29	68	5,081	95	5,957	90	6,349	142	6,868
May	6	62	5,143	105	6,062	83	6,432	152	7,020
	13	60	5,203	100	6,162	76	6,508	148	7,168
	20	57	5,260	85	6,247	78	6,586	128	7,296
	27	56	5,316	79	6,326	86	6,672	103	7,399
June	3	46	5,362	74	6,400	101	6,773	116	7,515
	10	29	5,391	75	6,475	100	6,873	116	7,631
	17	28	5,419	74	6,549	79	6,952	124	7,655
	24	28	5,447	64	6,613	68	7,020	130	7,785
July	1	31	5,478	59	6,672	79	7,099	108	7,893
	8	35	5,513	45	6,717	56	7,155	108	8,001
	15	31	5,544	38	6,755	83	7,238	91	8,092
	22	30	5,574	53	6,808	82	7,320	92	8,184
	29	31	5,605	63	6,871	69	7,399	101	8,285
	30	20	5,625	71	6,942	28	7,417	48	8,333

# Movement of American Crop into Sight during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —		1923-24		1924-25		1925-26		1926-27	
		Week	Season	Week	Season	Week	Season	Week	Season
August	6	31	31	6	6	—	—	55	55
	13	61	92	52	58	82	82	99	154
	20	89	181	64	122	112	194	113	267
	27	133	314	79	201	175	369	135	402
September	3	209	523	177	378	278	647	256	658
	10	271	794	268	646	475	1,122	298	956
	17	317	1,111	365	1,011	517	1,639	504	1,460
	24	424	1,535	481	1,492	629	2,268	634	2,094
October	1	456	1,991	516	2,008	710	2,978	847	2,941
	8	565	2,556	588	2,596	735	3,713	940	3,881
	15	580	3,136	647	3,243	721	4,434	933	4,814
	22	614	3,750	741	3,984	788	5,522	918	5,732
	29	597	4,347	685	4,669	771	5,993	853	6,585
November	5	518	4,865	723	5,392	763	6,756	823	7,408
	12	475	5,340	664	6,056	692	7,448	804	8,212
	19	512	5,825	684	6,740	621	8,069	799	9,011
	26	501	6,353	720	7,460	622	8,691	736	9,747
December	3	491	6,844	660	8,120	608	9,299	741	10,488
	10	387	7,231	629	8,749	649	9,948	685	11,173
	17	368	7,599	493	9,242	624	10,572	614	11,787
	24	301	7,900	506	9,748	528	11,100	522	12,309
	31	302	8,202	406	10,154	459	11,559	496	12,805
January	7	219	8,421	422	10,576	409	11,968	349	13,154
	14	234	8,655	366	10,942	303	12,271	389	13,543
	21	230	8,885	378	11,313 <sup>1</sup>	264	12,535	414	13,957
	28	195	9,080	268	11,581	277	12,812	360	14,317
February	4	185	9,265	258	11,839	247	13,059	343	14,660
	11	161	9,426	263	12,102	250	13,309	337	14,997
	18	152	9,578	297	12,399	244	13,553	303	15,300
	25	118	9,696	257	12,656	241	13,794	328	15,628
March	4	103	9,799	233	12,889	184	13,978	320	15,948
	11	80	9,879	240	13,129	174	14,152	326	16,274
	18	81	9,960	224	13,353	166	14,318	310	16,584
	25	90	10,050	215	13,568	158	14,476	283	16,867
April	1	81	10,131	176	13,744	172	14,648	229	17,096
	8	78	10,209	100	13,844	146	14,794	177	17,273
	15	84	10,293	95	13,939	135	14,929	187	17,460
	22	83	10,376	83	14,022	128	15,057	185	17,645
	29	78	10,454	94	14,116	114	15,171	173	17,818
May	6	78	10,532	82	14,198	125	15,296	202	18,020
	13	72	10,604	85	14,283	99	15,395	173	18,193
	20	73	10,677	60	14,343	99	15,494	138	18,331
	27	74	10,751	59	14,402	81	15,575	98	18,429
June	3	70	10,821	65	14,467	87	15,662	107	18,536
	10	55	10,876	66	14,533	86	15,748	105	18,641
	17	40	10,916	54	14,587	85	15,833	108	18,749
	24	49	10,965	48	14,635	84	15,917	105	18,854
July	1	43	11,008	46	14,681	66	15,983	85	18,939
	8	46	11,054	30	14,711	63	16,046	90	19,029
	15	41	11,095	31	14,742	44	16,090	65	19,094
	22	45	11,140	58	14,800	59	16,149	84	19,178
	29	46	11,186	64	14,864	58	16,207	90	19,268
	30	40	11,226	78	14,942	51	16,258	31	19,299

<sup>1</sup> 7,000 bales burned.

# Monthly Movement of Cotton into Sight

[Running bales, linters included]

Source: New York Cotton Exchange

	1923-24	1924-25	1925-26	1926-27
August . . . . .	523,137	421,375	793,736	559,417
September . . . . .	1,543,717	1,934,838	2,737,508	2,246,841
October . . . . .	2,638,665	3,035,433	3,348,139	3,910,431
November . . . . .	2,138,035	2,853,939	2,672,223	3,456,639
December . . . . .	1,445,279	2,261,434	2,352,759	2,632,341
January . . . . .	935,395	1,377,691	1,192,761	1,617,677
February . . . . .	574,369	1,046,591	913,099	1,295,808
March . . . . .	369,007	891,552	736,783	1,336,700
April . . . . .	355,314	399,238	548,682	808,713
May . . . . .	310,818	263,397	401,927	612,073
June . . . . .	207,107	221,987	335,030	439,794
July . . . . .	190,342	240,903	255,795	381,420
	11,226,185	14,948,278	16,288,442	19,297,854
Burned . . . . .	—	6,604	—	—
Total into sight . . . . .	11,226,185	14,941,674	16,288,442	19,297,854
Add . . . . .	96,016 <sup>1</sup>	21,259 <sup>1</sup>	—	426,109
Deduct . . . . .	—	—	632,971 <sup>2</sup>	—
Total crop . . . . .	11,322,201	14,962,933	15,655,471	19,723,963

<sup>1</sup> Decrease of stock at interior towns under previous year.

<sup>2</sup> Excess of stock at interior towns over previous year.

# Percentage of Loss of Cotton due to Boll Weevil, 1913-26

[Expressed in percentage of a normal or full yield per acre]

Source: United States Department of Agriculture

STATE	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
North Carolina	-	-	-	-	-	-	-	-	3.58	12.27	12.97	7.49	8.04	3.24
South Carolina	-	-	.02	.02	.01	.07	3.00	13.26	31.48	40.48	26.95	15.93	11.71	4.27
Georgia	.10	-	.28	3.44	9.06	10.73	19.36	30.56	45.12	44.28	36.62	15.11	6.68	5.09
Florida	11.80	-	13.14	20.98	27.07	23.85	40.46	32.10	27.62	32.50	32.53	27.73	6.43	-
Tennessee	.10	.08	.04	1.23	1.74	.37	.17	.57	7.21	8.84	20.75	2.38	.31	1.57
Alabama	4.80	6.02	16.16	27.91	28.88	12.14	28.77	36.03	32.39	25.51	32.52	11.77	4.88	3.16
Mississippi	33.90	24.14	24.68	31.73	22.22	10.41	19.56	32.25	30.38	27.65	30.82	7.38	2.99	6.26
Louisiana	25.10	17.66	19.85	24.31	11.89	9.79	24.84	25.99	34.80	24.61	23.25	4.59	9.52	8.52
Texas	6.80	7.86	16.28	18.53	7.26	4.43	13.96	19.90	33.66	16.25	9.96	7.63	2.35	11.69
Oklahoma	.40	.79	2.70	3.70	4.35	1.30	1.48	8.81	41.36	25.67	19.33	3.93	1.83	8.49
Arkansas	2.80	2.93	4.60	7.49	8.96	3.14	4.79	9.41	21.84	18.15	15.87	3.70	1.80	2.94
United States average <sup>1</sup>	6.69	5.91	9.93	13.36	9.34	5.83	13.20	19.95	30.98	24.17	19.55	8.01	3.87	7.04

<sup>1</sup> Average is weighted and includes cotton States in which there was no damage by boll weevil.

## Indian Cotton Production

These statistics embrace all cotton produced in India, including that used in house manufacture as well as that taken by factories or exported.

[In bales of 400 pounds each]

Source: Department of Commercial Intelligence and Statistics, India

PROVINCES AND STATES	1923-24	1924-25	1925-26	1926-27	1927-28 <sup>1</sup>
Bombay <sup>2</sup> . . . . .	1,212,000	1,589,000	1,566,000	1,267,000	1,431,000
Central Provinces and Berar .	1,020,000	1,000,000	980,000	977,000	1,145,000
Madras <sup>2</sup> . . . . .	484,000	567,000	569,000	388,000	391,000
Punjab <sup>2</sup> . . . . .	630,000	910,000	908,000	599,000	605,000
United Provinces <sup>2</sup> . . .	213,000	276,000	277,000	259,000	200,000
Sind <sup>2</sup> . . . . .	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>
Burma . . . . .	46,000	70,000	83,000	73,000	67,000
Bengal <sup>2</sup> . . . . .	21,000	24,000	26,000	25,000	20,000
Bihar and Orissa . . . .	16,000	14,000	15,000	14,000	14,000
North-West Frontier . . .	5,000	8,000	7,000	5,000	2,000
Assam . . . . .	14,000	15,000	13,000	15,000	15,000
Delhi . . . . .	1,000	1,000	1,000	1,000	1,000
Ajmer-Merwara . . . . .	13,000	15,000	17,000	15,000	14,000
Hyderabad . . . . .	1,079,000	899,000	1,060,000	808,000	951,000
Central India . . . . .	162,000	259,000	270,000	223,000	247,000
Baroda . . . . .	76,000	171,000	189,000	124,000	127,000
Rajputana . . . . .	73,000	89,000	93,000	78,000	110,000
Mysore . . . . .	15,000	36,000	25,000	25,000	25,000
Gwalior . . . . .	60,000	145,000	116,000	107,000	115,000
Total . . . . .	5,140,000	6,088,000	6,215,000	5,003,000	5,480,000

<sup>1</sup> February, 1928, estimate.

<sup>2</sup> Includes Indian States.

<sup>3</sup> Included in Bombay.

## Indian Cotton Yield per Acre

[In pounds]

Source: Department of Commercial Intelligence and Statistics, India.

PROVINCES AND STATES	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28 <sup>1</sup>
Bombay <sup>2</sup> . . . . .	96	90	71	82	77	75	83
Central Provinces and Berar . . . . .	102	102	83	81	73	80	94
Madras <sup>2</sup> . . . . .	79	75	73	78	78	70	80
Punjab <sup>2</sup> . . . . .	93	115	131	141	119	85	117
United Provinces <sup>2</sup> . . . . .	119	108	130	105	110	128	124
Sind <sup>2</sup> . . . . .	145	172	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>
Burma . . . . .	52	66	61	86	72	65	78
Bengal <sup>2</sup> . . . . .	91	94	118	125	147	130	103
Bihar and Orissa . . . . .	75	75	79	71	73	71	73
North-West Frontier . . . . .	80	80	87	82	87	67	73
Assam . . . . .	113	130	144	133	111	130	133
Delhi . . . . .	80	152	133	100	67	100	200
Ajmer-Merwara . . . . .	185	167	127	133	126	140	133
Hyderabad . . . . .	119	117	123	105	112	99	105
Central India . . . . .	70	97	66	71	79	69	78
Baroda . . . . .	57	80	46	104	87	65	63
Rajputana . . . . .	92	101	88	87	91	77	104
Mysore . . . . .	102	116	71	122	120	103	123
Gwalior . . . . .	—	—	48	54	71	66	79
Average . . . . .	97	98	87	91	88	81	92

<sup>1</sup> February, 1928, estimate.

<sup>2</sup> Includes Indian States.

<sup>3</sup> Included in Bombay.

# Indian Cotton Acreage

Source: Department of Commercial Intelligence and Statistics, India

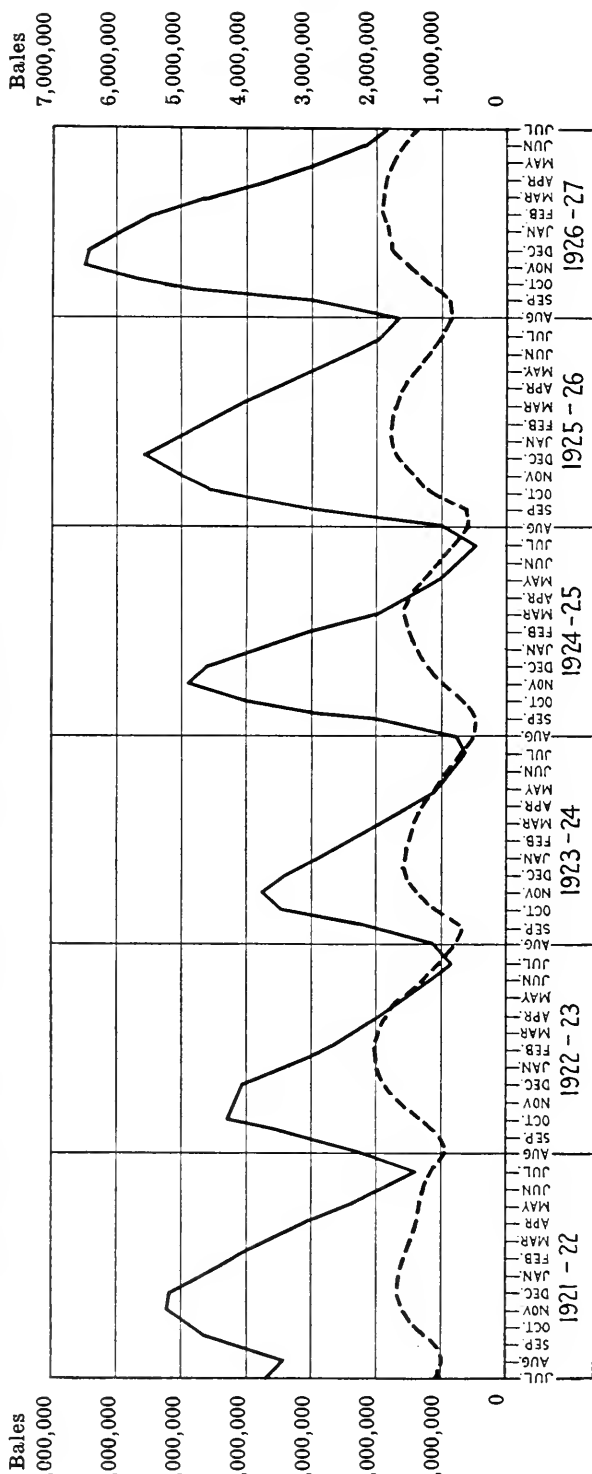
PROVINCES AND STATES	1923-24	1924-25	1925-26	1926-27	1927-28 <sup>1</sup>
Bombay <sup>2</sup> . . . . .	6,788,000	7,713,000	8,117,000	6,768,000	6,912,000
Central Provinces and Berar . . . . .	4,933,000	5,247,000	5,385,000	4,864,000	4,848,000
Madras <sup>2</sup> . . . . .	2,663,000	2,903,000	2,921,000	2,231,000	1,946,000
Punjab <sup>2</sup> . . . . .	1,927,000	2,589,000	3,052,000	2,803,000	2,074,000
United Provinces <sup>2</sup> . . . . .	654,000	1,049,000	1,004,000	809,000	647,000
Sind <sup>2</sup> . . . . .	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>	— <sup>3</sup>
Burma . . . . .	301,000	352,000	464,000	447,000	342,000
Bengal <sup>2</sup> . . . . .	71,000	77,000	78,000	77,000	78,000
Bihar and Orissa . . . . .	81,000	79,000	82,000	79,000	77,000
North-West Frontier . . . . .	23,000	39,000	32,000	30,000	11,000
Assam . . . . .	39,000	45,000	47,000	46,000	45,000
Delhi . . . . .	3,000	4,000	6,000	4,000	2,000
Ajmer-Merwara . . . . .	41,000	45,000	54,000	43,000	42,000
Hyderabad . . . . .	3,500,000	3,412,000	3,781,000	3,267,000	3,631,000
Central India . . . . .	982,000	1,354,000	1,369,000	1,297,000	1,263,000
Baroda . . . . .	657,000	658,000	866,000	761,000	806,000
Rajputana . . . . .	330,000	418,000	411,000	404,000	422,000
Mysore . . . . .	84,000	118,000	83,000	97,000	81,000
Gwalior . . . . .	500,000	699,000	651,000	649,000	585,000
Total . . . . .	23,577,000	26,801,000	28,403,000	24,676,000	23,812,000

<sup>1</sup> February, 1928, estimate.

<sup>2</sup> Includes Indian States.

<sup>3</sup> Included in Bombay.

# United States Stocks of Cotton in Consuming Establishments and in Public Storage



The above chart is based on the table on the following page.

— In public storage and at compresses  
 - - - In consuming establishments



# United States Stocks of Cotton in Consuming Establishments, in Public Storage and at Compresses

[American cotton is counted in running bales; foreign cotton, in equivalent 500-pound bales]

## Linters are not included

The table below does not include cotton in transit, in private storage or on plantations. It embraces merely the cotton in consuming establishments, in public storage and at compresses, as compiled monthly by the United States Bureau of the Census.

At End of —	1921-22		1922-23		1923-24		1924-25		1925-26		1926-27	
	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses
August . . .	1,006,066	3,463,964	1,024,874	1,530,141	810,511	1,172,287	552,669	810,913	680,527	1,040,178	920,944	1,715,593
September . .	1,118,045	4,312,135	1,065,816	3,217,939	772,632	2,147,012	514,537	2,072,956	866,011	3,137,620	937,129	3,293,217
October . . .	1,398,138	4,984,831	1,381,945	4,287,119	1,106,347	3,485,005	730,656	4,221,854	1,216,437	4,199,382	1,215,873	5,469,809
November . .	1,635,359	5,292,941	1,724,488	4,197,955	1,444,474	3,769,204	1,016,612	4,914,219	1,456,166	5,206,283	1,497,844	6,517,565
December . .	1,738,138	5,206,663	1,917,231	4,069,470	1,627,628	3,512,577	1,319,265	4,623,863	1,717,972	5,608,066	1,706,392	6,478,998
January . . .	1,668,668	4,621,708	1,988,115	3,485,952	1,637,824	2,963,983	1,433,814	3,863,475	1,811,392	5,175,834	1,832,987	6,070,030
February . . .	1,595,242	4,214,862	2,020,900	2,803,304	1,583,439	2,497,075	1,546,210	3,075,140	1,831,296	4,741,090	1,933,077	5,443,820
March . . . .	1,557,023	3,752,258	2,033,837	2,379,697	1,498,266	1,983,514	1,633,783	2,028,331	1,767,086	4,162,628	1,980,103	4,491,955
April . . . . .	1,461,340	3,213,483	1,878,198	1,963,714	1,328,273	1,512,086	1,514,514	1,666,147	1,639,174	3,530,811	1,894,993	3,676,083
May . . . . .	1,420,428	2,559,451	1,634,167	1,580,219	1,157,778	1,126,711	1,348,304	1,134,920	1,449,932	2,964,824	1,794,281	2,868,947
June . . . . .	1,330,903	1,953,478	1,347,468	1,227,184	950,625	882,204	1,123,813	759,945	1,267,796	2,407,816	1,607,676	2,164,108
July . . . . .	1,218,388	1,488,165	1,093,618	938,903	719,827	673,934	866,259	514,196	1,096,521	1,936,662	1,401,358	1,822,671

# United States Stocks of Cotton and Linters

[American cotton in running bales, counting round as half bales; foreign cotton in equivalent 500-pound bales]

Source: United States Bureau of the Census

AT END OF —	TOTAL COTTON EXCLUSIVE OF LINTERS		LINTERS		SEA ISLAND		EGYPTIAN	
	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage
August, 1926	920,944	1,715,593	123,255	38,132	—	—	60,869	17,651
September, 1926	937,129	3,293,217	100,058	38,488	—	—	52,587	11,806
October, 1926	1,215,873	5,469,809	99,318	42,868	—	—	40,270	7,383
November, 1926	1,497,844	6,517,565	117,915	52,913	—	—	36,068	7,458
December, 1926	1,766,392	6,478,998	137,743	57,588	—	—	36,904	13,065
January, 1927	1,852,987	6,070,020	161,724	57,876	—	—	48,402	16,427
February, 1927	1,832,655	5,443,820	195,106	71,988	—	—	48,825	14,393
March, 1927	1,980,103	4,491,955	226,987	79,140	—	—	55,424	13,445
April, 1927	1,894,993	3,676,083	229,240	71,803	—	—	52,612	17,366
May, 1927	1,794,284	2,868,947	225,417	68,032	—	—	56,445	13,370
June, 1927	1,607,676	2,164,108	217,285	58,784	—	—	57,726	14,721
July, 1927	1,404,358	1,822,671	199,050	52,831	—	—	58,881	13,287
Season ending —								
July, 1926	1,096,647	1,935,913	143,630	52,899	—	—	64,437	28,510
July, 1925	865,842	514,006	128,916	28,698	2,703	501	50,475	11,526
July, 1924	721,589	673,925	100,632	54,026	2,465	2,038	51,655	12,586
July, 1923	1,093,618	938,903	127,139	36,000	2,947	3,969	86,508	51,316
July, 1922	1,218,388	1,488,165	138,523	54,587	3,787	3,303	62,863	53,427
July, 1921	1,111,147	3,723,213	201,353	234,926	4,489	6,126	68,914	59,148
July, 1920	1,358,147	2,055,015	277,218	382,432	14,654	9,791	117,300	102,799
July, 1919	1,303,418	2,208,367	266,539	227,358	19,487	31,538	36,858	15,899
July, 1918	1,465,223	1,734,965	138,108	236,809	20,000	36,494	35,917	31,363
July, 1917	1,501,916	888,257	112,972	230,687	36,482	19,912	75,250	42,662
July, 1916	1,632,245	1,107,464	100,441	113,106	27,454	10,870	123,406	59,202
July, 1915	1,401,185	1,784,919	198,905	89,881	24,919	4,678	96,828	25,123
August, 1914	675,873	546,944	75,346	29,673	21,028	7,453	52,413	6,205
August, 1913	717,704	467,902	69,454	27,378	19,896	Not available	74,518	1,876

## Carry-over of Cotton

The term "carry-over" has several meanings. It may refer (1) simply to cotton held in the United States, or (2) American cotton held anywhere in the world, or (3) all kinds of cotton held anywhere in the world. Statistics of carry-over as issued by trade authorities differ widely from each other each year, not only because of the various meanings of the term, as just stated, but also because some authorities count the carry-over in running bales, disregarding the fact that Egyptian bales, for example, weigh approximately 750 pounds and Indian bales only 400, while others compute the quantities of foreign cottons in equivalent 500-pound bales, and some authorities include American linters while others do not.

Following are statistics of the amount of cotton carried over from each season for several years past, as computed, on different bases, by leading authorities.

### World Carry-over of American Cotton

The table below was compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange. It includes all American cotton held in the American cotton belt, — *i.e.*, at southern mills, at counted and uncounted interior towns, and on plantations, — stocks at northern mills and at the ports of the United States, and stocks at European ports and at European mills. This embraces practically all American cotton held anywhere in the world. The only stocks not included in this table are those in Japan and scattering stocks in the less important manufacturing countries where some American cotton may be found, such as Canada and Mexico. The cotton is counted in running bales, round bales being counted as half bales.

DATE	Including Linters	Exclusive of Linters
July 31, 1927 . . . . .	7,238,000	6,952,000
July 31, 1926 . . . . .	5,639,000	5,378,000
July 31, 1925 . . . . .	2,991,000	2,826,000
July 31, 1924 . . . . .	2,319,000	2,089,000
July 31, 1923 . . . . .	2,573,000	2,396,000
July 31, 1922 . . . . .	4,879,000	4,547,000
July 31, 1921 . . . . .	9,364,000	8,699,000
July 31, 1920 . . . . .	6,216,000	5,216,000
July 31, 1919 . . . . .	6,909,000	6,094,000
July 31, 1918 . . . . .	4,422,000	4,018,000
July 31, 1917 . . . . .	4,305,000	3,688,000
July 31, 1916 . . . . .	5,105,000	4,742,000
July 31, 1915 . . . . .	7,701,000	7,551,000
August 31, 1914 . . . . .	4,564,000	4,399,000

## Supply and Distribution of Cotton in the United States for the Twelve Months ending July 31, 1927

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton and domestic cotton, reimported, in equivalent 500-pound bales. Linters are not included]

Source: United States Bureau of the Census

		SUPPLY	Bales
On hand August 1, 1926, total . . . . .			3,542,560
In consuming establishments, total . . . . .		1,096,647	
In cotton-growing States . . . . .	624,345		
In all other States . . . . .	472,302		
In public storage and at compresses . . . . .		1,935,913	
In cotton-growing States . . . . .	1,708,461		
In all other States . . . . .	227,452		
Elsewhere (partially estimated) <sup>1</sup> . . . . .		510,000	
Imports foreign cotton, total . . . . .		400,983	
Re-exported . . . . .		18,834	
Net imports . . . . .			382,149
Ginnings, crop of 1926, total . . . . .		17,755,070	
Prior to August 1, 1926 . . . . .		47,770	
During cotton year 1926-27 . . . . .			17,707,300
Ginnings, crop of 1927 prior to August 1 . . . . .			162,506
Aggregate supply . . . . .			21,794,515
		DISTRIBUTION	
Exports domestic cotton, total . . . . .		10,926,614	
Reimported . . . . .		9,764	
Net exports . . . . .			10,916,850
Consumed, total . . . . .			7,189,585
In cotton-growing States . . . . .		5,193,500	
In all other States . . . . .		1,996,085	
Destroyed . . . . .			70,000
On hand July 31, 1927, total . . . . .			3,762,367
In consuming establishments, total . . . . .		1,404,815	
In cotton-growing States . . . . .	882,427		
In all other States . . . . .	522,388		
In public storage and at compresses . . . . .		1,822,552	
In cotton-growing States . . . . .	1,498,453		
In all other States . . . . .	324,099		
Elsewhere (partially estimated) <sup>1</sup> . . . . .		535,000	
Aggregate distribution . . . . .			21,938,802
Excess of distribution over supply <sup>2</sup> . . . . .			144,287

<sup>1</sup> Includes cotton for export on shipboard but not cleared; cotton coastwise; cotton in transit to ports, interior towns, and mills; cotton on farms, etc.

<sup>2</sup> Due principally to the inclusion in all distribution items of the "city crop," which consists of rebaled samples and pickings from cotton damaged by fire and weather.

# Mid-Season Stocks of All Cottons in the World

Source: Garside Cotton Service

[American cotton in running bales; foreign cotton in equivalent bales of 478 pounds net weight; American linters not included]

	MID-SEASON STOCKS OF ALL COTTONS				
	Jan. 31, 1923	Jan. 31, 1924	Jan. 31, 1925	Jan. 31, 1926	Jan. 31, 1927
In public storage, etc.:					
Farms, etc., in United States . . . .	1,330,000	1,108,000	1,823,000	2,252,000	3,487,000
Public storage in United States . .	3,483,000	2,958,000	3,861,000	5,176,000	6,155,000
Unmarketed Foreign Crops <sup>1</sup> . . . .	4,107,000	4,364,000	5,509,000	5,614,000	4,973,000
Alexandria . . . .	461,000	368,000	377,000	453,000	654,000
Bombay . . . . .	472,000	326,000	330,000	377,000	412,000
Afloat to Europe . .	624,000	745,000	813,000	589,000	893,000
Ports in Europe . .	1,473,000	1,312,000	1,649,000	1,613,000	2,574,000
Elsewhere <sup>2</sup> . . . .	522,000	619,000	771,000	749,000	1,029,000
Total . . . . .	12,472,000	11,800,000	15,133,000	16,823,000	20,177,000
In Mills:					
United States . . .	1,989,000	1,632,000	1,441,000	1,814,000	1,853,000
Great Britain . . .	289,000	278,000	256,000	285,000	249,000
Continent . . . . .	748,000	758,000	931,000	1,095,000	1,099,000
Elsewhere . . . . .	1,474,000	1,154,000	1,096,000	1,090,000	1,097,000
Total . . . . .	4,500,000	3,822,000	3,724,000	4,284,000	4,298,000
Grand Total . .	16,972,000	15,622,000	18,857,000	21,107,000	24,475,000

<sup>1</sup> Includes stocks in interior of India and Egypt, and estimated unpicked or unmarketed portions of crops of India, Russia, Brazil, China, and minor cotton-producing countries.

<sup>2</sup> Includes cotton afloat to and in warehouses in the Orient.

## Carry-over Stocks of All Cottons in the World

Source: Garside Cotton Service

[American cotton in running bales; foreign cottons in equivalent bales of 478 pounds net weight;  
American linters not included]

	CARRY-OVER OF ALL COTTONS				
	July 31, 1923	July 31, 1924	July 31, 1925	July 31, 1926	July 31, 1927
<b>In public storage, etc.:</b>					
Farms, etc., in United States . . . .	280,000	160,000	230,000	510,000	535,000
Public storage in United States . .	940,000	673,000	506,000	1,929,000	1,820,000
Alexandria . . . .	204,000	76,000	82,000	309,000	479,000
Bombay . . . .	258,000	323,000	338,000	282,000	293,000
Afloat to Europe . .	265,000	303,000	304,000	369,000	445,000
Ports, etc., in Europe	676,000	750,000	974,000	1,225,000	2,273,000
Elsewhere <sup>1</sup> . . .	644,000	399,000	625,000	788,000	880,000
<b>Total . . . .</b>	<b>3,267,000</b>	<b>2,684,000</b>	<b>3,059,000</b>	<b>5,412,000</b>	<b>6,725,000</b>
<b>In mills:</b>					
United States . . .	1,091,000	719,000	869,000	1,096,000	1,404,000
Great Britain . . .	258,000	214,000	264,000	250,000	261,000
Continent . . . .	691,000	817,000	1,134,000	985,000	1,337,000
Elsewhere . . . .	1,415,000	1,357,000	1,418,000	1,537,000	1,727,000
<b>Total . . . .</b>	<b>3,455,000</b>	<b>3,107,000</b>	<b>3,685,000</b>	<b>3,868,000</b>	<b>4,759,000</b>
<b>Grand total . .</b>	<b>6,722,000</b>	<b>5,791,000</b>	<b>6,744,000</b>	<b>9,280,000</b>	<b>11,484,000</b>

<sup>1</sup> Includes cotton afloat to the Orient, in warehouses and in transit in the Orient and in transit in Europe.

# Quantity of the Several Kinds of Raw Cotton consumed and of Stocks held in Consuming Establishments, 1924 to 1927

United States Bureau of the Census

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are not included]

KIND AND LOCALITY	RAW COTTON CONSUMED DURING YEAR (BALES)				STOCKS HELD IN CONSUMING ESTABLISHMENTS JULY 31 (BALES)			
	1927	1926	1925	1924	1927	1926	1925	1924
United States . . . . .	7,189,585	6,455,852	6,193,417	5,680,554	1,404,815	1,096,647	865,842	721,589
Domestic:								
Upland . . . . .	6,859,229	6,161,710	5,894,497	5,312,033	1,319,284	1,002,523	781,080	626,597
Sea-island . . . . .	1,226	2,325	3,970	4,906	1,694	1,462	2,702	2,465
American-Egyptian . . . . .	19,669	11,740	19,018	35,998	4,237	6,387	2,849	8,988
Foreign:								
Egyptian . . . . .	239,768	204,113	191,544	223,649	58,882	64,203	50,529	51,655
Peruvian . . . . .	14,535	19,841	19,561	29,474	3,765	2,961	2,587	3,609
Chinese . . . . .	32,043	31,378	40,185	51,472	12,435	10,434	16,258	16,250
British Indian . . . . .	21,985	23,736	24,573	21,848	3,445	8,088	9,832	12,001
Other . . . . .	1,130	1,009	69	1,174	1,073	589	5	24
Cotton-growing States . . . . .	5,193,500	4,500,243	4,220,010	3,858,317	882,427	624,345	428,647	340,157
Domestic:								
Upland . . . . .	5,129,978	4,470,274	4,186,092	3,807,305	872,080	617,273	424,027	329,236
Sea-island . . . . .	162	134	92	100	169	70	28	15
American-Egyptian . . . . .	1,834	1,406	5,477	10,682	257	597	207	2,694
Foreign:								
Egyptian . . . . .	42,911	16,584	19,472	27,968	5,206	3,667	1,582	4,649
Peruvian . . . . .	2,019	1,701	—	—	100	409	—	—
Chinese . . . . .	10,464	6,741	6,437	6,675	3,733	1,349	2,132	930
British Indian . . . . .	6,088	3,227	2,390	5,332	882	931	671	2,633
Other . . . . .	44	176	50	255	—	49	—	—
All other States . . . . .	1,996,085	1,955,609	1,973,407	1,822,237	522,388	472,302	437,195	381,432
Domestic:								
Upland . . . . .	1,729,251	1,691,436	1,708,405	1,504,728	447,204	385,250	357,053	297,361
Sea-island . . . . .	1,064	2,191	3,878	4,806	1,525	1,392	2,674	2,450
American-Egyptian . . . . .	17,835	10,334	13,541	25,316	3,980	5,790	2,642	6,294
Foreign:								
Egyptian . . . . .	196,857	187,529	172,072	195,681	53,676	60,536	48,947	47,006
Peruvian . . . . .	12,516	18,140	19,561	29,474	3,665	2,552	2,587	3,609
Chinese . . . . .	21,579	24,637	33,748	44,797	8,702	9,085	14,126	15,320
British Indian . . . . .	15,897	20,509	22,183	16,516	2,563	7,157	9,161	9,368
Other . . . . .	1,086	833	19	919	1,073	540	5	24

## World Supply and Consumption of American Cotton

The tables below, compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange, show the world supply and consumption of American cotton, inclusive of linters, season by season since 1914-15. In considering these statistics it should be borne in mind that they relate only to American cotton. They do not include Egyptian, Indian or other foreign growths. The figures of supply at the beginning of each season include mill stocks in the United States and Europe, stocks at counted and uncounted interior towns and on plantations in this country, and stocks at ports in this country and Europe. The statistics on consumption include consumption in this country and abroad. These statistics are in running bales.

### Supply and Consumption, including Linters

COTTON SEASON, AUG. 1 TO JULY 31	Supply at Beginning of Season	Crop	Total Supply for Season	Consumption
1914-15	4,564,000	17,004,000	21,568,000	13,834,000
1915-16	7,701,000	12,175,000	19,876,000	14,812,000
1916-17	5,105,000	12,966,000	18,071,000	13,892,000
1917-18	4,305,000	12,424,000	16,729,000	12,282,000
1918-19	4,422,000	13,070,000	17,492,000	10,535,000
1919-20	6,909,000	12,000,000	18,909,000	12,670,000
1920-21	6,216,000	13,750,000	19,966,000	10,330,000
1921-22	9,364,000	8,442,000	17,806,000	12,829,000
1922-23	4,879,000	10,424,000	15,303,000	12,631,000
1923-24	2,573,000	10,985,000	13,558,000	11,241,000
1924-25	2,319,000	14,808,000	17,127,000	14,136,000
1925-26	3,268,000 <sup>1</sup>	17,541,000	20,809,000	15,170,000
1926-27	5,639,000	19,215,000	24,854,000	17,616,000
1927-28	7,238,000	—	—	—

<sup>1</sup> Includes stocks at Japan and 10,000 at European mills, 1926.

### Stocks of American Cotton at United States Ports July 31

Source: New Orleans Cotton Exchange

	1923	1924	1925	1926	1927
Galveston	18,671	41,954	51,572	149,926	146,029
Houston	—	—	—	226,636	179,825
New Orleans	47,595	50,702	49,275	152,265	259,603
Mobile	850	557	1,303	3,389	4,109
Savannah	12,040	8,390	7,572	27,073	43,983
Charleston	23,870	11,933	7,319	12,698	20,878
Wilmington	5,180	1,828	7,082	7,095	4,336
Brunswick	4	1	—	—	—
Norfolk	21,000	16,000	20,000	40,000	32,000
Baltimore	500	500	500	500	500
New York	42,729	80,759	61,613	56,883	213,071
Philadelphia	3,893	3,363	3,455	4,224	5,159
Boston	4,566	4,569	1,431	4,252	2,289
Pacific ports	—	1,046	378	—	4,501
Pensacola	—	116	157	508	431
Jacksonville	2,614	1,679	8	371	585
Texas City	4	—	1	3,141	6,121
Total	183,516	223,397	211,666	688,961	923,420



# Activity and Normal Operation of American Cotton Industry

Source: United States Bureau of the Census

MONTH	NORMAL DAYS OF OPERATION				PERCENTAGE OF ACTIVITY ON A SINGLE-SHIFT BASIS			
	1926-27	1925-26	1924-25	1923-24	1926-27	1925-26	1924-25	1923-24
August . . . . .	26	26	26	27	87.4	80.1	63.0	85.4
September . . . . .	25½	25½	25½	24½	98.5	83.8	76.4	93.6
October . . . . .	25¾	26¾	26¾	26¾	98.9	89.5	86.2	95.8
November . . . . .	25½	24½	24½	25¼	101.3	96.0	87.8	96.7
December . . . . .	26	25	26	25	100.7	99.4	90.7	87.0
January . . . . .	25½	25½	26½	26½	102.0	98.6	97.2	95.5
February . . . . .	23¾	23¾	23¾	24¾	106.5	103.2	100.5	87.3
March . . . . .	27	27	26	26	109.8	102.2	100.0	82.4
April . . . . .	25¾	25¾	25¾	25¾	105.6	98.2	100.2	80.0
May . . . . .	25½	25½	25½	26½	108.9	88.9	93.8	67.5
June . . . . .	26	26	26	25	109.3	88.4	89.2	64.6
July . . . . .	25¼	26	26	26	99.1	78.7	84.6	60.3

## Consumption and Stocks of Cotton by Kinds

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are not included]

Source: United States Bureau of the Census

KIND AND LOCALITY	RAW COTTON CONSUMED DURING YEAR (BALES)				STOCKS HELD IN CONSUMING ESTABLISHMENTS JULY 31 (BALES)			
	1927	1926	1925	1924	1927	1926	1925	1924
United States . . . . .	7,189,585	6,455,852	6,193,417	5,680,554	1,404,815	1,096,647	865,842	721,589
Domestic:								
Upland . . . . .	6,859,229	6,161,710	5,894,497	5,312,033	1,319,284	1,002,523	781,080	626,597
Sea-island . . . . .	1,226	2,325	3,970	4,906	1,694	1,462	2,702	2,465
American-Egyptian . . . . .	19,669	11,740	19,018	35,998	4,237	6,387	2,849	8,988
Foreign:								
Egyptian . . . . .	239,768	204,113	191,544	223,649	58,882	64,203	50,529	51,655
Peruvian . . . . .	14,535	19,841	19,561	29,474	3,765	2,961	2,587	3,609
Chinese . . . . .	32,043	31,378	40,185	51,472	12,435	10,434	16,258	16,250
British Indian . . . . .	21,985	23,736	24,573	21,848	3,445	8,088	9,832	12,001
Other . . . . .	1,130	1,009	69	1,174	1,073	589	5	24

# Calculated Total World's Cotton Mill Consumption for the Half son, on Basis of Spinners' Returns made

COUNTRIES	IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
	AMERICAN				EAST INDIAN			
	HALF YEAR ENDING				HALF YEAR ENDING			
	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925
Europe:								
1 Great Britain . . . . .	1,137	940	937	1,252	34	48	73	97
2 Germany . . . . .	649	565	405	496	78	94	72	108
3 France . . . . .	406	419	424	430	68	91	93	83
4 Russia . . . . .	123	267	59	150	—	—	1	—
5 Italy . . . . .	338	342	357	346	78	106	120	139
6 Czecho-slovakia . . . . .	236	172	158	189	34	32	38	64
7 Spain . . . . .	151	140	144	132	26	27	41	39
8 Belgium . . . . .	116	91	92	80	54	75	71	70
9 Switzerland . . . . .	27	28	31	32	3	3	5	4
10 Poland . . . . .	125	146	89	85	13	19	10	7
11 Austria . . . . .	66	47	49	49	13	12	18	24
12 Holland . . . . .	70	62	60	59	12	15	14	14
13 Sweden . . . . .	46	46	44	37	1	1	1	1
14 Portugal . . . . .	26	29	33	28	—	—	—	—
15 Finland . . . . .	18	20	21	15	—	—	—	—
16 Denmark . . . . .	10	10	9	8	—	—	—	—
17 Norway . . . . .	3	3	3	4	—	—	—	—
18 Europe total . . . . .	3,547	3,327	2,915	3,392	414	523	557	650
Asia:								
19 India . . . . .	290	60	8	6	1,018	1,170	1,086	1,196
20 Japan . . . . .	619	513	499	393	716	840	889	727
21 China . . . . .	161	113	74	40	201	258	222	195
22 Asia total . . . . .	1,070	686	581	439	1,935	2,268	2,197	2,118
America:								
23 U. S. A. . . . .	3,597	3,286	3,132	3,093	15	13	12	15
24 Canada . . . . .	105	87	94	94	—	—	—	1
25 Mexico . . . . .	—	—	4	—	—	—	—	—
26 Brazil . . . . .	—	—	—	—	—	—	—	—
27 America total . . . . .	3,702	3,373	3,230	3,187	15	13	12	16
28 Sundries . . . . .	38	37	30	31	14	14	21	5
29 Half year totals . . . . .	8,357	7,423	6,756	7,409	2,378	2,818	2,787	2,789

**Year ending 31st July, 1927, with Previous Figures for Comparison to the International Cotton Federation**

IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)												
EGYPTIAN				SUNDRIES				TOTAL				
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING				
July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	
183	186	200	198	240	242	166	125	1,594	1,416	1,376	1,672	1
36	31	19	31	13	12	5	8	776	702	501	643	2
49	51	56	48	34	64	39	28	557	625	612	589	3
43	30	24	20	490	524	821	442	656	821	905	612	4
24	25	28	28	8	11	11	11	448	484	516	524	5
14	10	10	10	2	3	1	3	286	217	207	266	6
12	11	12	7	11	12	7	3	200	190	204	181	7
2	2	2	1	12	11	12	4	184	179	177	155	8
25	21	18	19	1	—	1	—	56	52	55	55	9
6	6	3	3	1	3	3	6	145	174	105	101	10
2	1	1	1	1	4	2	1	82	64	70	75	11
—	—	—	—	1	2	2	1	83	79	76	74	12
—	—	—	1	1	—	—	—	48	47	45	39	13
—	—	—	—	4	13	11	16	30	42	44	44	14
—	—	—	—	—	—	—	—	18	20	21	15	15
—	—	—	—	1	—	—	—	11	10	9	8	16
—	—	—	—	—	—	—	—	3	3	3	4	17
396	374	373	367	820	901	1,081	648	5,177	5,125	4,926	5,057	18
1	3	5	4	30	29	23	27	1,339	1,262	1,122	1,233	19
23	23	19	19	50	67	65	139	1,408	1,443	1,472	1,278	20
—	1	—	—	558	628	549	609	920	1,000	845	844	21
24	27	24	23	638	724	637	775	3,667	3,705	3,439	3,355	22
85	74	71	71	35	29	29	30	3,732	3,402	3,244	3,209	23
5	4	3	—	—	—	—	—	110	91	97	95	24
—	—	—	1	81	103	103	86	81	103	107	87	25
—	—	—	1	255	189	420	251	255	189	420	252	26
90	78	74	73	371	321	552	367	4,178	3,785	3,868	3,643	27
8	8	6	7	70	55	53	28	130	114	110	71	28
518	487	477	470	1,899	2,001	2,323	1,818	13,152	12,729	12,343	12,126	29

# Calculated Total World's Cotton Mill Stocks on July 31, 1927, with to the International

	COUNTRIES	IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
		AMERICAN				EAST INDIAN			
		HALF YEAR ENDING				HALF YEAR ENDING			
		July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925
1	Europe:								
2	Great Britain . . . .	122	127	120	131	17	13	32	31
3	Germany . . . . .	220	178	100	124	31	18	26	51
4	France . . . . .	148	140	124	130	41	35	49	53
5	Russia . . . . .	125	12	19	82	—	—	—	—
6	Italy . . . . .	148	135	124	140	33	23	61	91
7	Czechoslovakia . . . .	64	53	41	44	9	7	13	27
8	Spain . . . . .	29	30	18	18	6	3	7	7
9	Belgium . . . . .	55	31	31	29	24	23	34	39
10	Switzerland . . . . .	21	24	13	17	3	2	4	4
11	Poland . . . . .	21	24	8	11	4	2	2	4
12	Austria . . . . .	18	18	13	13	4	4	7	11
13	Holland . . . . .	33	31	19	20	7	4	7	10
14	Sweden . . . . .	25	17	19	16	—	—	—	—
15	Portugal . . . . .	6	13	4	4	—	—	—	—
16	Finland . . . . .	5	5	6	4	—	—	—	—
17	Denmark . . . . .	3	2	3	3	—	—	—	1
18	Norway . . . . .	1	2	1	2	—	—	—	—
18	Europe total . . . .	1,044	842	663	787	179	134	242	329
19	Asia:								
20	India . . . . .	117	25	8	—	684	436	607	578
21	Japan . . . . .	387	194	207	192	568	177	555	551
22	China . . . . .	68	50	35	27	77	70	167	127
22	Asia total . . . . .	572	269	250	219	1,329	683	1,329	1,256
23	America:								
24	U. S. A. . . . .	1,325	1,789	1,010	787	4	8	10	12
25	Canada . . . . .	69	69	36	31	—	—	—	—
26	Mexico . . . . .	—	—	2	—	—	—	—	—
27	Brazil . . . . .	—	—	—	—	—	—	—	—
27	America total . . . .	1,394	1,858	1,048	818	4	8	10	12
28	Sundries . . . . .	10	13	8	9	3	4	8	2
29	Grand totals . . . .	3,020	2,982	1,969	1,833	1,515	829	1,589	1,599

# Previous Figures for Comparison on Basis of Spinners' Returns made Cotton Federation

IN THOUSANDS OF ACTUAL BALES  
(REGARDLESS OF WEIGHT)

EGYPTIAN				SUNDRIES				TOTAL				
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING				
July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	July 31, 1927	Jan. 31, 1927	July 31, 1926	July 31, 1925	
44	41	45	52	74	63	45	38	257	244	242	252	1
16	10	7	11	6	3	2	6	273	209	135	192	2
22	20	26	25	19	30	24	19	230	225	223	227	3
26	10	8	11	122	343	257	244	373	365	284	337	4
11	11	15	12	2	5	4	6	194	174	204	249	5
4	4	4	3	1	1	1	2	78	65	59	76	6
5	5	4	3	2	3	1	1	42	41	30	29	7
2	1	1	1	3	5	2	3	84	60	68	72	8
17	15	11	7	2	—	—	1	43	41	28	29	9
1	3	2	2	1	1	—	1	27	30	12	18	10
1	—	1	1	—	1	—	1	23	23	21	26	11
—	—	—	—	2	—	1	—	42	35	27	30	12
—	—	—	—	1	1	—	—	26	18	19	16	13
—	—	—	—	2	5	4	6	8	18	8	10	14
—	—	—	—	—	—	—	—	5	5	6	3	15
—	—	—	—	—	—	—	—	3	2	3	4	16
—	—	—	—	—	—	—	—	1	2	1	2	17
149	120	124	128	237	461	341	328	1,609	1,557	1,370	1,572	18
2	2	3	—	23	10	12	5	826	473	630	583	19
24	15	27	16	22	16	30	24	1,001	402	819	783	20
1	—	—	—	92	153	170	132	238	273	372	286	21
27	17	30	16	137	179	212	161	2,065	1,148	1,821	1,652	22
39	32	43	34	19	10	15	20	1,387	1,839	1,078	853	23
2	1	2	—	—	—	—	—	71	70	38	31	24
—	—	—	—	62	45	25	40	62	45	27	40	25
—	—	—	—	99	49	116	97	99	49	116	97	26
41	33	45	34	180	104	156	157	1,619	2,003	1,259	1,021	27
3	3	2	3	31	27	30	8	47	47	48	22	28
220	173	201	181	585	771	739	654	5,340	4,755	4,498	4,267	29

**Consumption of Cotton, per Thousand Spindles, by Countries**

[In running bales]

Source: International Federation of Master Cotton Spinners' and Manufacturers' Associations  
Statistics

COUNTRIES	1922	1923	1924	1925	1926	1927
World . . . . .	137.3	141.2	128.0	144.3	151.0	157.2
Great Britain . . . . .	50.6	48.9	47.8	56.6	53.2	51.6
France . . . . .	110.8	126.0	113.5	119.0	124.3	123.8
Germany . . . . .	126.2	111.9	81.9	127.4	110.4	136.2
Italy . . . . .	175.6	195.9	236.1	210.0	216.4	185.9
Czechoslovakia . . . . .	104.0	71.2	120.5	139.4	134.5	139.4
Spain . . . . .	200.5	194.0	201.8	194.1	166.3	207.1
Belgium . . . . .	151.2	161.9	170.0	170.5	191.7	193.4
Switzerland . . . . .	57.5	48.7	66.6	71.1	74.5	71.0
Poland . . . . .	184.9	189.6	162.5	178.3	147.0	229.1
Holland . . . . .	175.5	165.5	81.6	166.4	147.8	162.3
Sweden . . . . .	133.4	148.0	151.4	149.6	161.0	156.2
Portugal . . . . .	156.0	177.1	180.9	149.1	168.9	143.1
Finland . . . . .	142.2	133.6	119.5	110.6	154.1	150.1
Denmark . . . . .	188.2	296.0	262.5	236.7	223.4	218.7
Norway . . . . .	111.9	112.6	90.9	172.6	109.0	100.0
India . . . . .	336.7	307.0	260.4	287.0	242.5	298.2
Japan . . . . .	519.2	535.0	484.3	464.6	511.2	455.8
U. S. America . . . . .	159.8	177.4	148.5	161.6	176.5	192.5
Canada . . . . .	149.6	163.9	130.2	122.0	180.4	174.3
Mexico . . . . .	179.8	177.4	185.7	237.1	268.1	220.0
Brazil . . . . .	300.7	328.6	222.9	273.3	322.6	172.6

# World's Visible Supply of Cotton during Past Five Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange Statistics

WEEK ENDING —	1922-23		1923-24		1924-25		1925-26		1926-27	
	All Kinds	American	All Kinds	American	All Kinds	American	All Kinds	American	All Kinds	American
August 6	3,692	1,865	2,039	850	2,148	939	2,222	1,052	3,511	2,184
13	3,509	1,762	1,939	799	2,072	910	2,137	992	3,406	2,103
20	3,363	1,671	1,917	792	1,931	818	2,153	1,005	3,353	2,044
27	3,373	1,643	1,940	829	1,875	792	2,240	1,137	3,243	1,985
September 3	3,210	1,629	1,978	924	1,881	835	2,434	1,371	3,223	2,004
10	3,219	1,689	2,013	1,031	1,963	948	2,686	1,646	3,252	2,082
17	3,266	1,770	2,134	1,183	2,108	1,134	3,017	1,977	3,457	2,333
24	3,455	1,996	2,337	1,429	2,362	1,423	3,449	2,399	3,812	2,694
October 1	3,692	2,265	2,550	1,651	2,688	1,737	3,894	2,844	4,374	3,202
8	3,944	2,566	2,774	1,913	2,932	2,023	4,209	3,218	4,921	3,766
15	4,263	2,869	2,964	2,139	3,222	2,363	4,589	3,587	5,397	4,243
22	4,531	3,135	3,222	2,392	3,609	2,744	4,910	3,893	5,810	4,710
29	4,827	3,434	3,401	2,601	3,907	3,062	5,250	4,184	6,206	5,113
November 5	5,027	3,670	3,617	2,791	4,284	3,419	5,511	4,413	6,618	5,511
12	5,087	3,811	3,924	2,926	4,582	3,736	5,729	4,615	6,947	5,856
19	5,219	3,925	4,064	3,054	4,835	4,022	5,904	4,780	7,321	6,214
26	5,253	3,973	4,199	3,161	5,082	4,232	6,117	4,974	7,581	6,484
December 3	5,474	4,009	4,353	3,293	5,312	4,463	6,393	5,179	7,854	6,749
10	5,420	3,957	4,436	3,350	5,541	4,667	6,581	5,288	8,137	6,974
17	5,368	3,907	4,522	3,398	5,681	4,741	6,750	5,411	8,317	7,143
24	5,358	3,839	4,646	3,405	5,901	4,877	6,873	5,485	8,494	7,235
31	5,441	3,800	4,785	3,435	5,966	4,938	6,935	5,523	8,608	7,332
January 7	5,328	3,680	4,853	3,396	6,084	5,022	7,017	5,468	8,690	7,328
14	5,316	3,635	4,891	3,341	6,148	4,979	6,933	5,378	8,796	7,365
21	5,296	3,513	4,871	3,281	6,115	4,927	6,862	5,332	8,895	7,390
28	5,249	3,433	4,910	3,239	6,139	4,885	6,738	5,230	8,920	7,341
February 4	5,177	3,324	4,782	3,128	6,025	4,785	6,701	5,139	8,857	7,235
11	4,984	3,181	4,674	3,057	5,908	4,654	6,650	5,084	8,808	7,091
18	4,876	3,015	4,694	2,983	5,911	4,607	6,656	5,003	8,741	6,977
25	4,761	2,890	4,696	2,887	5,836	4,478	6,584	4,909	8,649	6,929
March 4	4,734	2,763	4,690	2,790	5,872	4,391	6,493	4,776	8,495	6,819
11	4,672	2,674	4,617	2,694	5,748	4,281	6,374	4,649	8,352	6,719
18	4,614	2,579	4,408	2,551	5,731	4,155	6,244	4,523	8,260	6,597
25	4,476	2,468	4,316	2,487	5,603	3,992	6,104	4,430	8,121	6,473
April 1	4,388	2,359	4,192	2,395	5,434	3,811	6,013	4,335	7,987	6,368
8	4,158	2,201	4,059	2,281	5,182	3,592	5,898	4,217	7,849	6,241
15	4,105	2,095	3,923	2,172	5,119	3,440	5,794	4,126	7,760	6,095
22	4,035	1,978	3,717	2,079	4,982	3,302	5,621	4,003	7,637	6,006
29	3,799	1,900	3,631	1,964	4,907	3,184	5,538	3,862	7,452	5,811
May 6	3,615	1,813	3,546	1,882	4,669	2,982	5,436	3,780	7,227	5,597
13	3,401	1,720	3,432	1,776	4,545	2,825	5,384	3,713	7,046	5,395
20	3,313	1,619	3,300	1,655	4,273	2,620	5,194	3,542	6,921	5,216
27	3,187	1,538	3,158	1,572	4,169	2,441	5,064	3,448	6,744	5,048
June 3	3,076	1,447	3,054	1,505	4,003	2,304	4,890	3,307	6,565	4,867
10	2,923	1,347	2,929	1,418	3,851	2,171	4,754	3,180	6,399	4,722
17	2,824	1,286	2,913	1,405	3,651	2,024	4,654	3,076	6,202	4,497
24	2,748	1,221	2,818	1,354	3,425	1,877	4,548	2,959	5,940	4,258
July 1	2,641	1,145	2,694	1,268	3,151	1,757	4,377	2,823	5,681	4,068
8	2,502	1,090	2,579	1,200	2,966	1,638	4,213	2,727	5,512	3,862
15	2,341	1,023	2,444	1,113	2,783	1,489	4,058	2,594	5,346	3,741
22	2,256	962	2,370	1,064	2,663	1,390	3,914	2,464	5,214	3,609
29	2,192	898	2,270	998	2,514	1,283	3,703	2,300	4,932	3,416
30	2,129	870	2,161	952	2,288	1,125	3,669	2,279	4,895	3,379





# United States Cotton Consumption, by States <sup>1</sup>

[In running bales, exclusive of linters]

Source: United States Bureau of the Census

	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
New England States:						
Maine . . .	162,142	182,184	148,836	146,379	136,318	135,994
New Hampshire	175,983	235,377	191,816	205,326	224,981	231,844
Vermont . . .	12,470	12,087	9,550	10,129	7,952	10,436
Massachusetts	1,140,459	1,231,300	869,695	950,942	945,790	972,820
Rhode Island	215,996	264,132	217,971	230,035	220,332	219,227
Connecticut	115,631	124,500	96,909	95,963	92,624	104,451
Total New England States . . .	1,822,681	2,049,580	1,534,777	1,636,774	1,627,997	1,674,772
Other non-cotton-growing States:						
New York . . .	197,930	201,270	144,017	164,610	163,905	162,477
New Jersey	38,365	41,866	39,088	62,132	47,826	35,772
Pennsylvania . .	29,747	30,876	30,892	30,687	30,054	26,508
Maryland . . .	41,158	44,799	31,833	37,150	42,998	45,619
Indiana . . .	15,936	15,683	15,711	15,157	17,419	19,444
Illinois . . .	12,418	12,451	13,165	11,783	11,326	12,390
Others . . .	21,808	21,619	12,754	10,762	14,084	19,103
Total other non-cotton-growing States	357,362	368,764	287,460	332,281	327,612	321,313
Cotton-growing States:						
Virginia . . .	116,530	121,272	105,775	110,883	121,243	129,783
North Carolina .	1,198,163	1,326,174	1,199,859	1,334,794	1,394,124	1,639,726
South Carolina .	918,725	1,035,557	947,964	1,029,797	1,078,146	1,245,482
Georgia . . .	781,870	974,662	864,328	966,324	1,012,980	1,152,855
Alabama . . .	377,548	414,880	392,705	430,051	494,283	570,409
Mississippi . . .	40,463	46,117	34,751	32,201	33,402	36,450
Tennessee . . .	107,731	123,052	120,053	115,202	130,619	150,914
Kentucky . . .	22,353	23,915	22,362	21,284	23,088	25,562
Louisiana . . .	40,704	45,135	35,097	33,566	34,633	39,184
Texas . . .	76,606	83,221	79,627	93,494	118,071	139,273
Others . . .	49,084	53,763	55,796	56,766	59,654	63,862
Total cotton-growing States . . .	3,729,777	4,247,748	3,858,317	4,224,362	4,500,243	5,193,500
Total United States	5,909,820	6,666,092	5,680,554	6,193,417	6,455,852	7,189,585

<sup>1</sup> Statistics here given are for years ending July 31.

## United States Cotton Production, Consumption, and Active Cotton Spindles

[Running bales, except those for production in 1850, 1860, and 1870, which are in equivalent 400-pound bales, and those for consumption from 1840 to 1870, and for foreign cotton, which are in equivalent 500-pound bales. Linters are not included except for quantities consumed in 1909 and years prior thereto]

Source: United States Bureau of the Census

YEAR	Cotton produced (Bales) <sup>1</sup>	COTTON CONSUMED (BALES)				ACTIVE COTTON SPINDLES			
		United States	Cotton-growing States	New England States	All Other States	United States	Cotton-growing States	New England States	All Other States
1927	17,755,070	7,189,585	5,193,500	1,674,772	321,313	34,409,910	17,893,908	14,995,460	1,520,542
1926	16,122,516	6,455,852	4,500,243	1,627,997	327,612	34,750,266	17,574,450	15,525,672	1,650,144
1925	13,639,399	6,193,417	4,220,010	1,638,774	334,633	35,032,246	17,292,042	15,975,442	1,764,762
1924	10,170,694	5,680,554	3,858,317	1,534,777	287,460	35,849,338	16,944,178	17,066,036	1,839,124
1923	9,729,306	6,666,092	4,247,748	2,049,580	368,764	36,260,001	16,310,360	18,053,716	1,895,925
1922	7,977,778	5,909,820	3,729,777	1,822,681	357,362	35,707,738	15,906,165	17,938,805	1,862,768
1921	13,270,970	4,892,672	2,997,471	1,613,597	281,604	36,047,367	15,708,988	18,387,789	1,950,590
1920	11,325,532	6,419,734	3,582,919	2,397,126	439,689	35,480,953	15,230,983	18,287,424	1,962,546
1919	11,906,480	5,765,936	3,199,027	2,165,031	401,878	34,930,934	14,846,239	18,065,857	2,018,838
1918	11,248,242	6,566,489	3,697,098	2,402,520	466,871	34,542,665	14,529,063	17,984,720	2,028,882
1917	11,363,915	6,788,505	3,888,348	2,414,372	485,785	33,888,835	14,155,758	17,760,968	1,972,109
1916	11,068,173	6,397,613	3,527,528	2,388,726	481,359	32,805,883	13,382,065	17,474,264	1,949,554
1915	15,905,840	5,597,362	3,026,969	2,149,398	420,995	31,964,235	12,955,712	17,100,615	1,907,908
1914	13,982,811	5,577,408	2,925,294	2,219,197	432,917	32,107,572	12,711,303	17,408,372	1,987,897
1913	13,488,539	5,483,321	2,861,743	2,178,237	443,341	31,519,766	12,227,226	17,311,451	1,981,089
1912	15,553,073	5,129,346	2,635,878	2,076,405	417,063	30,578,528	11,582,869	17,139,945	1,855,714
1911	11,568,334	4,498,417	2,249,135	1,882,060	367,222	29,522,597	11,084,623	16,510,981	1,926,993
1910	10,072,731	4,621,742	2,233,506	1,995,456	392,780	28,266,862	10,494,112	15,735,086	2,037,664
1909	13,086,005	5,240,719	2,553,797	2,144,448	542,474	28,018,305	10,429,200	15,591,851	1,997,254
1908	11,057,822	4,539,090	2,187,096	1,894,835	457,159	27,505,422	10,200,903	15,329,333	1,975,186
1907	12,983,201	4,984,936	2,410,993	2,073,355	500,588	26,375,191	9,527,964	14,912,517	1,934,710
1906	10,495,105	4,909,279	2,373,577	2,059,900	475,802	25,250,096	8,994,868	14,407,580	1,847,648
1905	13,451,337	4,278,980 <sup>2</sup>	2,140,151 <sup>2</sup>	1,753,282 <sup>2</sup>	385,547 <sup>2</sup>	23,687,495	7,631,331	14,202,971	1,853,193
1900	9,393,242	3,873,165	1,523,168	1,909,498	440,499	19,472,232	4,367,688	13,171,377	1,933,167
1890	7,472,511	2,518,409	538,895	1,502,177	477,337	14,384,180	1,570,288	10,934,297	1,879,595
1880	5,755,359	1,570,344 <sup>3</sup>	188,748 <sup>3</sup>	1,129,498 <sup>3</sup>	252,098 <sup>3</sup>	10,653,435 <sup>3</sup>	561,360	8,632,087 <sup>3</sup>	1,459,988 <sup>3</sup>
1870	3,011,996	796,616	68,702	551,250	176,664	7,132,415	327,871	5,498,308	1,306,236
1860	5,387,052	845,410	93,553	567,403	184,454	5,235,727	324,052	3,858,962	1,052,713
1850	2,469,093	575,506	78,140	430,603	66,763	3,998,022	264,571	2,958,536	774,915
1840	2,063,915	236,525	71,000	158,708	6,817	2,284,631	180,927	1,597,394	506,310

<sup>1</sup> Relates to crop of preceding year.

<sup>2</sup> Does not include foreign cotton.

<sup>3</sup> Cotton mills only.

# Exports of Cotton from Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK		1924-25		1925-26		1926-27	
		Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1
September	2	83,477	19,402	57,210	10,357	125,331	125,331
	9	43,769	63,171	42,081	52,438	54,906	180,237
	16	73,055	136,226	47,552	99,990	48,252	228,489
	23	124,834	261,060	89,452	189,442	67,352	295,841
October	30	176,237	437,297	61,199	250,641	62,215	358,056
	7	98,703	536,000	111,042	361,683	99,643	457,699
	14	172,515	708,515	209,651	571,334	52,607	510,306
	21	168,890	877,405	150,341	721,675	200,468	710,774
November	28	212,525	1,089,930	267,950	989,625	217,353	928,127
	4	351,236	1,441,166	189,286	1,178,911	182,483	1,110,610
	11	258,117	1,699,283	312,432	1,491,343	195,492	1,306,102
	18	273,114	1,972,397	233,814	1,725,157	168,165	1,474,267
December	25	250,343	2,222,740	209,575	1,934,732	240,554	1,714,821
	2	371,226	2,593,966	246,540	2,181,272	238,513	1,953,334
	9	303,786	2,897,752	243,472	2,424,744	226,982	2,180,316
	16	283,692	3,181,444	202,392	2,627,136	248,158	2,428,474
January	23	239,206	3,420,650	247,905	2,875,041	155,016	2,583,490
	30	299,585	3,720,235	158,820	3,033,861	220,636	2,804,126
	6	259,454	3,979,689	95,869	3,129,730	131,030	2,935,156
	13	98,387	4,078,076	88,954	3,218,684	128,496	3,063,652
February	20	169,627	4,247,703	320,208	3,538,892	157,094	3,220,746
	27	231,569	4,479,272	181,360	3,720,252	170,487	3,391,233
	3	204,385	4,683,657	192,787	3,913,039	232,627	3,623,860
	10	132,757	4,816,414	249,678	4,162,717	167,282	3,791,142
March	17	173,569	4,989,983	173,286	4,336,003	206,722	3,997,864
	24	184,006	5,173,989	136,508	4,472,511	123,525	4,121,389
	3	198,411	5,372,400	135,522	4,608,033	274,865	4,396,254
	10	120,606	5,493,006	136,115	4,744,148	111,703	4,507,957
April	17	120,122	5,595,128	110,306	4,854,454	149,824	4,657,781
	24	90,773	5,685,901	151,616	5,006,070	238,286	4,896,067
	31	200,296	5,886,197	177,043	5,183,113	171,311	5,067,378
	7	43,111	5,929,308	42,635	5,225,748	175,499	5,242,871
May	14	52,237	5,981,545	74,199	5,299,947	165,920	5,408,797
	21	63,306	6,044,851	93,413	5,393,360	217,921	5,626,718
	28	73,192	6,118,042	137,570	5,530,930	131,548	5,758,266
	5	102,105	6,220,147	107,242	5,638,172	175,824	5,134,090
June	12	105,409	6,325,556	148,502	5,786,674	189,446	6,123,536
	19	39,964	6,365,520	134,743	5,921,417	132,371	6,255,907
	26	70,105	6,435,625	72,793	5,994,210	104,390	6,360,297
	2	34,649	6,470,274	93,282	6,087,492	116,369	6,476,666
July	9	69,741	6,540,015	96,796	6,184,288	225,588	6,702,254
	16	67,176	6,607,191	107,093	6,291,381	43,542	6,745,796
	23	42,233	6,649,424	39,695	6,331,076	142,722	6,888,518
	29	76,204	6,725,628	112,973	6,444,049	158,819	7,047,334
August	7	26,417	6,752,045	105,298	6,549,347	61,358	7,108,695
	14	49,477	6,801,522	61,546	6,610,893	157,497	7,266,192
	21	31,943	6,833,465	78,987	6,689,880	51,864	7,318,056
	28	56,440	6,889,905	70,035	6,759,915	141,222	7,459,278
	4	45,768	6,935,673	134,549	6,894,464	120,526	7,579,804
	11	36,960	6,972,633	39,910	6,934,374	70,808	7,650,612
	18	41,420	7,014,053	62,844	6,997,218	61,934	7,712,546
	25	22,308	7,036,361	81,067	7,078,285	111,855	7,824,401

# Receipts of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK	1924-25		1925-26		1926-27	
	Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1
September	2	69,462	40,661	66,551	34,010	14,697
	9	129,210	169,871	91,856	125,866	30,608
	16	174,915	344,786	142,513	268,379	59,557
	23	284,458	629,244	188,077	456,456	125,266
	30	301,813	931,057	297,518	753,974	175,958
October	7	235,717	1,166,774	356,660	1,110,634	234,357
	14	363,642	1,530,416	341,759	1,452,393	245,338
	21	303,779	1,834,195	353,162	1,805,555	324,170
	28	448,536	2,282,731	366,800	2,172,355	363,583
November	4	399,991	2,682,722	339,176	2,511,531	370,736
	11	366,715	3,049,437	338,072	2,849,603	360,755
	18	428,384	3,477,821	301,875	3,151,478	391,387
	25	386,398	3,864,219	198,116	3,349,594	379,180
December	2	383,041	4,247,260	320,088	3,669,682	401,616
	9	350,926	4,598,186	323,192	3,992,874	338,926
	16	356,701	4,954,887	322,818	4,315,692	339,092
	23	257,579	5,212,466	292,115	4,607,807	262,944
	30	211,828	5,424,294	284,462	4,892,269	276,275
January	6	215,125	5,639,419	210,423	5,102,692	299,754
	13	152,361	5,791,780	153,665	5,256,357	182,081
	20	168,658	5,960,438	154,166	5,410,523	182,311
	27	150,504	6,110,942	184,100	5,594,623	222,116
February	3	109,961	6,220,633	184,876	5,779,499	200,592
	10	84,922	6,305,555	218,353	5,997,852	176,343
	17	121,721	6,427,276	200,725	6,198,577	127,883
	24	100,744	6,528,020	197,196	6,395,773	137,883
March	3	75,729	6,603,749	156,572	6,552,345	296,187
	10	73,067	6,676,816	117,758	6,670,103	238,254
	17	63,779	6,740,595	76,928	6,747,031	192,191
	24	53,750	6,794,345	86,953	6,833,984	172,304
	31	74,196	6,868,511	93,349	6,927,333	117,706
April	7	36,292	6,904,833	66,445	6,993,778	116,706
	14	22,934	6,927,767	49,581	7,043,359	66,378
	21	15,732	6,943,499	67,343	7,110,702	105,662
	28	5,774	6,949,273	98,882	7,209,584	97,982
May	5	9,406	6,958,678	95,229	7,304,813	118,320
	12	9,425	6,968,104	63,712	7,368,525	182,957
	19	8,532	6,976,636	72,122	7,440,647	182,374
	26	12,710	6,989,346	61,882	7,502,529	222,927
June	2	21,419	7,010,765	72,016	7,574,545	153,112
	9	20,626	7,031,391	67,181	7,641,726	73,132
	16	4,671	7,036,062	75,457	7,717,183	40,984
	23	541	7,036,603	62,489	7,779,672	29,410
	29	1,069	7,037,672	28,902	7,808,574	20,114
July	7	-	7,037,672	41,530	7,850,104	25,730
	14	1,140	7,058,812	25,353	7,875,457	34,901
	21	111	7,038,923	15,297	7,890,754	16,288
	28	1,855	7,040,778	18,326	7,909,080	10,916
August	4	338	7,041,116	10,938	7,920,018	7,532
	11	898	7,042,014	12,671	7,932,689	4,768
	18	6,285	7,048,299	12,363	7,945,052	13,792
	25	22,614	7,070,913	6,532	7,951,584	7,165

# Stock of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK		1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
September	2	1,752,288	1,369,946	818,275	281,259	303,893	1,157,195
	9	1,783,372	1,310,853	815,740	366,700	353,668	1,132,897
	16	1,699,479	1,264,757	838,578	468,560	561,389	1,089,789
	23	1,706,181	1,360,087	948,246	628,184	660,014	1,147,703
	30	1,690,188	1,478,231	1,022,616	753,760	896,333	1,261,446
October	7	1,850,409	1,699,035	1,171,121	890,774	1,141,951	1,396,160
	14	1,997,173	1,931,005	1,358,163	1,081,901	1,274,059	1,588,891
	21	2,139,264	2,059,531	1,526,583	1,216,790	1,476,880	1,712,593
	28	2,262,407	2,295,028	1,702,681	1,452,801	1,575,730	1,858,823
November	4	2,187,983	2,393,234	1,841,686	1,501,556	1,725,620	2,047,076
	11	2,247,865	2,626,011	1,957,359	1,610,154	1,751,260	2,212,339
	18	2,320,074	2,681,855	2,177,395	1,765,424	1,819,321	2,435,561
	25	2,423,389	2,673,550	2,189,684	1,901,475	1,807,862	2,574,187
December	2	2,447,501	2,769,026	2,043,403	1,913,294	1,881,410	2,737,290
	9	2,305,446	2,594,376	2,100,414	1,960,434	1,961,130	2,849,234
	16	2,369,408	2,585,701	2,178,298	2,033,443	2,081,556	2,840,168
	23	2,451,920	2,574,545	2,147,592	2,051,816	2,125,766	2,948,096
	30	2,528,739	2,578,322	2,250,630	1,964,059	2,251,408	3,003,735
January	6	2,538,750	2,511,518	2,186,298	1,919,730	2,365,962	3,172,459
	13	2,503,822	2,475,510	2,002,478	1,973,704	2,430,673	3,226,044
	20	2,510,528	2,379,650	1,915,306	1,972,735	2,264,631	3,251,061
	27	2,488,658	2,303,933	1,840,639	1,891,670	2,267,371	3,302,690
February	3	2,400,635	2,221,221	1,811,833	1,796,976	2,259,460	3,270,655
	10	2,357,626	2,200,555	1,782,538	1,749,141	2,228,135	3,279,716
	17	2,351,900	2,186,274	1,766,185	1,697,293	2,255,574	3,200,877
	24	2,343,107	2,186,202	1,689,654	1,614,031	2,316,262	3,215,235
March	3	2,293,889	2,119,139	1,678,143	1,491,349	2,337,312	3,236,557
	10	2,270,773	2,057,560	1,525,498	1,443,810	2,318,955	3,363,108
	17	2,301,435	2,001,133	1,511,004	1,405,467	2,285,577	3,405,475
	24	2,269,392	1,955,928	1,506,105	1,368,444	2,220,914	3,339,493
April	31	2,257,656	1,929,154	1,402,827	1,242,344	2,137,220	3,285,888
	7	2,265,683	1,811,599	1,342,047	1,235,525	2,162,560	3,227,095
	14	2,261,160	1,790,358	1,296,627	1,206,222	2,137,942	3,127,553
	21	2,195,380	1,723,819	1,239,416	1,158,648	2,111,872	3,015,294
May	28	2,209,913	1,771,275	1,211,688	1,091,231	2,073,184	2,981,728
	5	2,197,814	1,717,640	1,169,438	998,532	2,061,171	2,924,224
	12	2,181,152	1,694,283	1,029,939	902,548	1,976,381	2,917,735
	19	2,080,304	1,613,938	955,031	871,116	1,913,760	2,967,738
June	26	2,012,516	1,544,006	892,032	813,721	1,902,849	3,086,275
	2	1,926,073	1,491,886	863,622	800,491	1,881,583	3,123,018
	9	1,925,655	1,414,620	774,572	751,376	1,851,968	2,970,562
	16	1,883,481	1,380,576	699,976	688,871	1,820,332	2,968,004
July	23	1,856,945	1,313,655	634,212	647,179	1,843,126	2,854,642
	29	1,820,361	1,239,640	580,526	572,044	1,759,155	2,715,937
	7	1,772,838	1,178,490	516,925	545,627	1,695,287	2,680,309
	14	1,712,204	1,126,611	495,290	497,290	1,659,094	2,557,713
August	21	1,668,648	1,095,532	417,242	465,458	1,595,404	2,522,137
	28	1,650,501	1,020,034	384,092	410,873	1,543,695	2,391,831
	4	1,560,444	951,719	339,127	365,443	1,420,084	2,278,837
	11	1,524,801	903,919	301,355	329,381	1,392,845	2,212,797
	18	1,464,301	854,736	280,329	294,246	1,342,364	2,164,655
	25	1,399,145	837,702	285,803	294,552	1,267,829	2,059,965

# **Egyptian Cotton Exports, by Countries of Destination, during Egyptian Cotton Season, from September 1 to August 31**

[In running Egyptian bales]

Source: Alexandria General Produce Association

	1916-17	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
Austria . . . . .	-	-	-	-	2,331	4,235	7,108	-	3,299	-	-
Belgium . . . . .	-	-	-	812	223,292	353,275	403,045	7,639	424,953	3,985	5,906
England . . . . .	346,196	503,597	459,774	345,878	40,266	83,198	114,185	450,436	126,464	426,278	436,798
France . . . . .	28,063	44,560	78,487	50,089	8,558	16,582	19,092	137,707	126,464	126,052	117,149
Germany . . . . .	-	-	-	5,874	2,676	2,930 <sup>1</sup>	792 <sup>1</sup>	17,167	14,377	9,523	21,517
Greece and Turkey . . . . .	143	4,891	2,602	926	2,680	3,443	3,627	2,488 <sup>1</sup>	3,286 <sup>1</sup>	1,973 <sup>1</sup>	2,893
Holland . . . . .	-	-	-	1,841	2,060	1,260	1,627	7,290	9,799	7,173	11,554
India and China . . . . .	-	-	-	-	77,775	90,257	117,146	1,851	434	874	1,973
Italy . . . . .	54,726	50,140	49,328	52,111	18,686	19,753	33,711	137,776	160,710	140,772	185,307
Japan . . . . .	20,682	18,218	22,160	14,256	763	650	925	26,356	33,080	50,562	43,371
Portugal . . . . .	929	-	250	695	-	-	925	850	823	843	978
Russia . . . . .	32,446	-	-	-	-	-	1,450	-	-	-	18,061
Spain . . . . .	12,534	16,911	10,436	8,805	14,671	19,399	29,557	27,508	19,608	26,001	23,957
United States . . . . .	134,891	75,865	95,262	256,555	51,130	168,136	211,417	109,261	135,200	150,570	162,186
Other countries . . . . .	-	-	10	15	527	410	1,646	1,000	2,530	1,587	2,078
Total . . . . .	630,610	714,182	718,309	737,857	445,415	763,528	945,328	927,328	934,563	946,193	1,033,728

<sup>1</sup> Greece and Syria.

NOTE. — This table shows only the destination of the cotton as given when the cotton was shipped from Egypt. Some of the cotton was reshipped from these countries of initial destination and was finally consumed in other countries; for example, some of the cotton reported here as taken by Great Britain was reshipped by the latter to the United States.

# Great Britain Raw Cotton Trade and Distribution

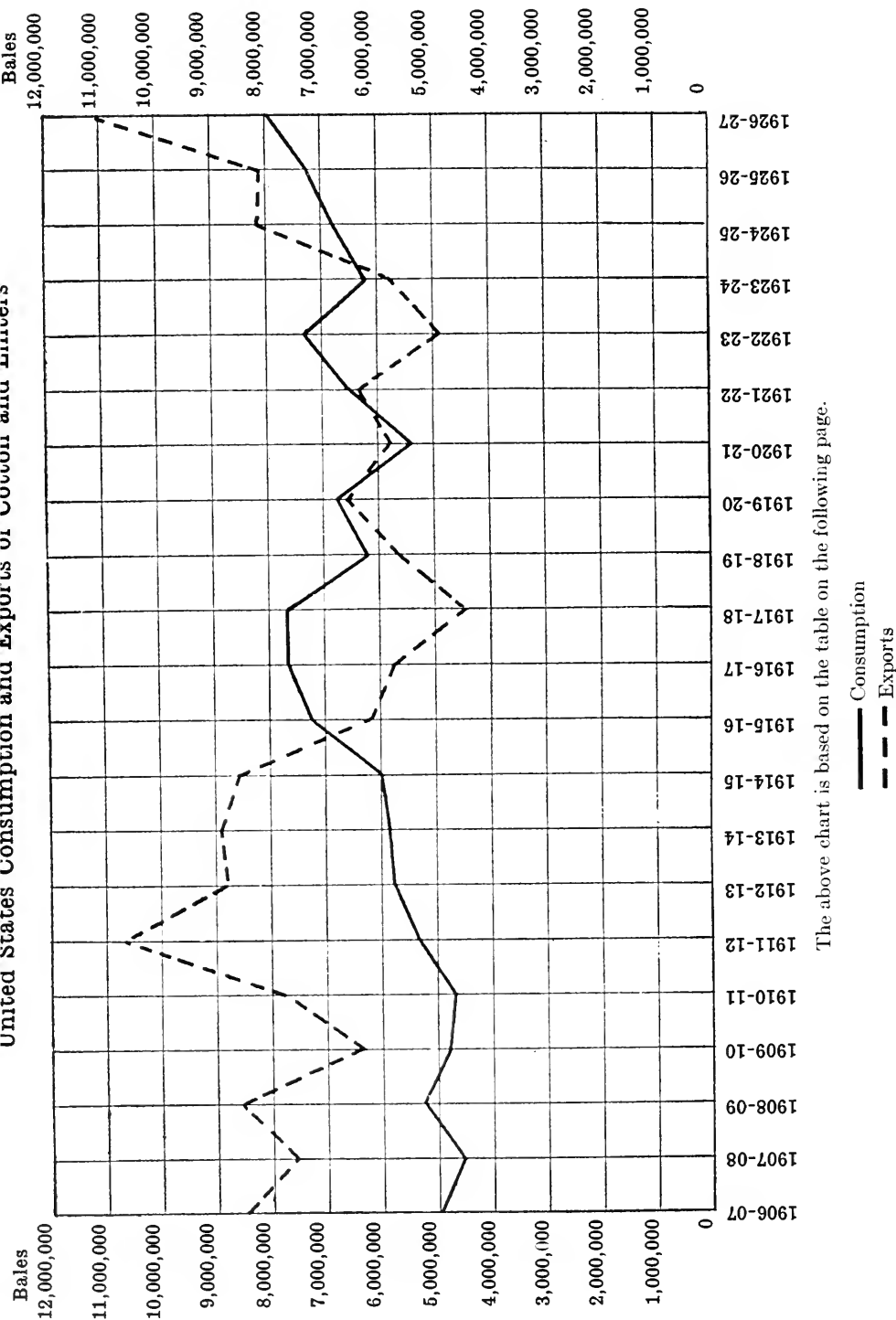
[000's omitted]

Source: Liverpool Cotton Association

Year	Imports					Exports	Consumption		Stock at End of Season		Year	
	American	Brazilian	Egyptian, etc.	Peruvian, etc.	East Indian		Total	Average Weight of Bales	Liverpool	Great Britain		
1850	1,184	172	79	6	308	1,749	392	1,514	388	455	622	1850
1860	2,581	103	109	10	563	3,366	424	2,523	429	546	794	1860
1870	1,664	403	220	112	1,063	3,462	380	2,797	386	379	547	1870
1880	2,634	123	240	73	570	3,640	434	3,068	444	478	681	1880
1890	2,918	150	272	66	604	4,010	467	3,500	475	910	1,179	1890
1900-01	3,028	39	389	55	128	3,639	506	3,101	506	366	506	1900-01
1910-11	3,399	125	603	127	252	4,506	503	3,797	498	402	724	1910-11
1911-12	4,305	78	590	151	106	5,230	507	4,261	503	595	1,087	1911-12
1912-13	3,615	202	591	193	136	4,737	506	4,345	501	572	994	1912-13
1913-14	3,507	286	570	249	264	4,876	492	4,231	491	886	1,225	1913-14
1914-15	4,048	40	559	206	277	5,130	504	3,890	496	1,462	1,815	1914-15
1915-16	2,698	5	557	197	154	3,611	513	3,971	497	644	962	1915-16
1916-17	2,646	17	442	191	96	3,392	512	204	3,567	505	585	1916-17
1917-18	2,276	25	484	143	211	3,139	512	3	2,960	506	760	1917-18
1918-19	2,490	13	414	165	84	3,166	510	75	2,929	521	900	1918-19
1919-20	3,268	79	623	292	200	4,462	507	449	3,434	503	1,479	1919-20
1920-21	1,716	15	252	226	93	2,302	505	291	2,080	512	1,474	1920-21
1921-22	1,811	111	417	309	62	2,710	506	224	2,835	497	1,163	1921-22
1922-23	1,335	89	496	299	243	2,462	508	194	2,746	496	683	1922-23
1923-24	1,682	58	481	421	326	2,968	500	249	2,741	499	661	1923-24
1924-25	2,568	50	462	469	196	3,745	491	236	3,280	491	889	1924-25
1925-26	2,255	153	437	555	226	3,626	488	238	3,092	488	1,185	1925-26
1926-27	2,644	115	454	260	87	3,560	502	306	3,129	497	1,595	1926-27

NOTE. — Through 1890, the import, export, and consumption figures were for year ending December 31; from 1900-01 through 1913-14 the figures are for year ending August 31; commencing with 1914-15 the figures are for year ending July 31.

## United States Consumption and Exports of Cotton and Linens





## United States Production, Consumption, and Exports of Cotton and Linters

The statistics below are in running bales except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15, they have been from August 1 to July 31.

Source: United States Bureau of the Census

COTTON SEASON	Production	Consumption	Exports
1906-07 . . . . .	13,097,992	4,984,936	8,503,265
1907-08 . . . . .	11,527,833	4,539,090	7,573,349
1908-09 . . . . .	13,418,144	5,240,719	8,574,024
1909-10 . . . . .	10,350,978	4,798,953	6,339,028
1910-11 . . . . .	12,384,248	4,704,978	7,781,414
1911-12 . . . . .	16,068,936	5,367,583	10,681,758
1912-13 . . . . .	14,159,078	5,786,330	8,800,966
1913-14 . . . . .	14,290,320	5,884,733	8,914,839
1914-15 . . . . .	16,738,241	6,009,207	8,544,563
1915-16 . . . . .	12,012,813	7,278,529	6,191,110
1916-17 . . . . .	12,664,078	7,658,207	5,739,009
1917-18 . . . . .	12,344,664	7,685,329	4,476,124
1918-19 . . . . .	12,816,716	6,223,837	5,663,920
1919-20 . . . . .	11,920,625	6,762,207	6,598,347
1920-21 . . . . .	13,699,975	5,408,979	5,796,107
1921-22 . . . . .	8,360,153	6,548,853	6,316,121
1922-23 . . . . .	10,319,843	7,312,201	4,864,027
1923-24 . . . . .	10,810,234	6,217,292	5,772,000
1924-25 . . . . .	14,497,361	6,852,265	8,195,876
1925-26 . . . . .	17,167,011	7,259,618	8,155,570
1926-27 . . . . .	18,796,934	7,995,668	11,183,938

**Indian Exports of Cotton**

[Bales of 478 pounds net]

[Fiscal years ending March 31]

Source: Bureau of Foreign and Domestic Commerce

COUNTRY OF DESTINATION	1922-23	1923-24	1924-25	1925-26	1926-27
United Kingdom . . .	159,733	241,418	129,994	188,288	65,042
Germany . . . . .	219,866	201,774	135,661	182,192	113,643
Netherlands . . . .	8,036	24,420	303,930	39,709	23,223
Belgium . . . . .	210,651	216,988	161,775	203,419	124,674
France . . . . .	105,566	145,801	107,680	161,152	96,879
Spain . . . . .	53,878	73,130	77,162	60,984	42,350
Italy . . . . .	201,680	460,507	389,601	381,618	239,448
Austria . . . . .	35,545	35,091	6,241	1,617	800
Ceylon . . . . .	4,334	5,331	3,433	5,717	3,322
Indo-China . . . . .	16,628	22,244	21,699	36,541	16,342
China . . . . .	415,600	225,571	228,249	456,454	308,048
Japan . . . . .	1,354,496	1,436,451	1,545,547	1,744,256	1,447,041
United States . . . .	18,243	35,985	26,415	25,923	16,434
All other . . . . .	4,404	5,677	11,079	4,138	4,602
Total . . . . .	2,808,660	3,130,388	2,874,834	3,492,007	2,504,867

**Brazilian Exports of Raw Cotton**

[Bales of 478 pounds net]

Source: Bureau of Foreign and Domestic Commerce

COUNTRY OF DESTINATION	Average, 1909-13	1922	1923	1924	1925	1926
Great Britain . . . .	63,646	78,154	52,267	18,904	95,946	55,977
France . . . . .	2,771	26,464	8,661	1,277	19,720	2,719
Italy . . . . .	6	-	-	68	3	-
Netherlands . . . . .	883	-	-	773	2,279	2,094
Belgium . . . . .	1,331	-	-	108	1,245	-
Germany . . . . .	2,332	-	-	255	5,302	4,110
Austria-Hungary . . .	204	-	-	-	-	-
Portugal . . . . .	7,517	26,619	20,312	7,084	10,170	8,400
Spain . . . . .	491	-	-	-	-	-
Russia (in Europe) . .	49	-	-	-	-	-
United States . . . .	73	5,310	5	17	-	44
Argentina . . . . .	46	-	-	-	-	-
Uruguay . . . . .	7	-	-	-	-	-
All others . . . . .	-	13,159	3,295	18	133	79
Total . . . . .	79,356	149,706	84,540	28,502	134,798	73,423

# United States Imports of Cotton, by Countries of Production

[Equivalent 500-pound bales]

Source: United States Department of Commerce

PERIOD	Egypt	China	Peru	India	Mexico	All Other	Total
Month of —							
July, 1927 . . . . .	22,155	4,333	2,127	2,200	173	159	31,147
June, 1927 . . . . .	28,798	4,019	1,227	2,875	53	106	37,078
May, 1927 . . . . .	14,020	2,873	1,265	2,596	329	264	21,347
April, 1927 . . . . .	27,345	3,585	1,830	2,205	2,440	653	38,058
March, 1927 . . . . .	23,692	3,433	1,349	1,709	10,854	230	41,267
February, 1927 . . . . .	20,063	4,456	2,213	358	12,518	94	39,702
January, 1927 . . . . .	32,949	6,425	2,276	343	14,604	342	56,939
December, 1926 . . . . .	20,958	3,181	1,814	238	13,131	529	39,851
November, 1926 . . . . .	22,773	617	2,671	472	14,878	30	41,441
October, 1926 . . . . .	7,616	252	1,942	1,981	18,872	214	30,877
September, 1926 . . . . .	2,334	104	1,314	1,100	5,067	88	10,007
August, 1926 . . . . .	9,064	188	849	2,815	353	—	13,269
Season ending —							
July 31, 1927 . . . . .	231,767	33,466	20,877	18,892	93,272	2,709	400,983
July 31, 1926 . . . . .	238,620	22,452	16,637	22,143	23,553	2,106	325,511
July 31, 1925 . . . . .	190,313	33,703	13,389	28,147	44,384	3,392	313,328
July 31, 1924 . . . . .	164,152	45,118	19,928	34,419	27,062	1,609	292,288
July 31, 1923 . . . . .	329,335	50,239	21,186	22,124	45,679	1,391	469,954
July 31, 1922 . . . . .	233,729	15,563	38,753	10,348	53,637	11,435	363,465
July 31, 1921 . . . . .	87,168	14,722	22,597	8,489	88,155	5,210	226,341
July 31, 1920 . . . . .	485,004	57,185	63,426	14,358	65,343	14,898	700,214
July 31, 1919 . . . . .	100,006	10,871	25,230	2,893	54,434	8,151	201,585
July 31, 1918 . . . . .	114,580	38,964	19,692	7,096	35,726	5,158	221,216
July 31, 1917 . . . . .	199,892	36,063	11,069	3,860	32,858	8,215	291,957
July 31, 1916 . . . . .	350,796	35,792	10,909	4,214	30,098	5,765	437,574
July 31, 1915 . . . . .	252,373	25,631	10,353	7,845	85,180	904	382,286

# United States Exports of Domestic Cotton and Linters, by Countries of Destination [For fiscal years]

Source: United States Department of Commerce

Year	Total Value	Total	EXPORTS (EQUIVALENT 500-POUND BALES) TO —										All Other Countries		
			United Kingdom	Germany	France	Italy	Spain	Belgium	Russia <sup>1</sup>	Austria <sup>2</sup>	Nether-lands	All Other Europe		Japan	Canada
1927	\$866,923,448	11,559,737	2,673,424	2,982,325	1,088,734	844,813	361,376	297,778	485,046	681	157,718	176,463	1,614,355	290,507	563,573
1928	917,719,910	8,211,647	2,297,641	1,691,307	943,586	745,070	314,619	293,461	235,775	618	125,891	155,250	1,118,261	253,992	126,068
1929	1,060,980,197	5,436,071	2,623,425	1,891,992	931,473	736,136	289,586	293,791	286,367	571	131,285	157,490	849,584	206,853	50,327
1930	903,975,116	4,896,715	1,694,895	1,345,354	858,713	563,733	216,253	108,968	120,318	2,114	124,466	153,233	583,967	191,731	32,965
1931	638,982,855	5,253,464	1,403,008	945,647	704,199	572,068	250,244	185,769	7,724	2,958	75,618	167,646	679,198	217,062	27,331
1932	596,378,864	6,717,737	1,806,743	1,016,674	820,049	468,590	341,551	186,272	—	4,008	96,293	135,614	895,367	201,166	139,335
1933	600,185,629	5,622,777	1,786,984	1,152,424	590,630	558,015	360,990	166,018	—	5,862	96,293	155,056	534,892	169,166	53,354
1934	1,381,707,502	7,087,487	3,444,009	2,420,758	996,391	617,263	275,034	298,372	—	42,858	186,476	183,729	876,250	216,006	1,141
1935	873,579,669	5,525,883	3,494,009	2,420,758	773,744	557,549	281,343	72,652	310	55,386	57,949	203,949	809,313	203,015	1,707
1936	655,024,655	4,641,023	2,357,101	—	658,553	369,213	259,194	—	15,945	—	10,098	82,572	583,546	249,973	10,706
1937	543,074,690	6,176,162	2,895,423	—	1,055,749	687,158	394,093	—	49,189	—	62,161	184,717	530,892	187,201	5,298
1938	374,186,247	6,108,140	2,760,890	—	890,376	836,915	340,246	—	173,449	—	102,087	169,154	503,077	197,659	23,095
1939	376,217,972	8,807,157	3,919,749	294,194	692,689	1,127,400	464,504	5,057	82,125	455	544,035	898,096	428,806	182,790	127,520
1940	610,475,301	9,521,881	3,581,501	2,884,324	1,139,399	537,357	297,339	227,474	99,076	106,511	35,053	63,725	353,440	150,993	34,671
1941	547,357,195	9,124,591	3,716,898	2,443,886	1,074,987	500,823	317,954	226,967	74,907	113,182	14,537	55,376	396,779	152,015	20,977
1942	565,849,271	11,070,251	4,343,108	3,156,171	1,228,294	636,077	313,500	121,903	112,262	125,564	35,242	83,821	480,934	181,067	16,129
1943	585,318,869	8,067,882	3,461,054	2,902,707	1,021,998	438,296	247,073	150,225	84,941	79,530	18,124	48,713	156,724	156,824	4,631
1944	450,447,243	6,413,416	2,444,558	1,857,657	968,432	393,327	178,455	102,346	67,203	57,220	18,823	43,378	95,000	125,592	29,004
1945	417,390,655	8,895,970	3,665,352	2,438,000	1,098,173	565,695	301,789	157,631	96,753	94,782	30,129	58,174	208,943	131,453	42,575
1946	437,788,202	7,633,997	2,956,352	2,385,063	889,083	418,921	263,744	119,470	98,371	90,049	27,684	62,125	200,396	113,997	4,767
1947	481,277,797	9,036,434	3,966,119	2,315,651	1,006,633	567,916	275,868	154,168	121,411	113,630	29,092	65,083	262,283	150,343	732
1948	401,005,921	7,268,090	3,181,143	1,871,441	817,583	486,607	241,747	114,673	112,480	56,375	18,092	44,886	147,269	141,908	29,285
1949	379,965,014	8,669,698	3,967,254	2,011,679	818,394	534,735	247,637	145,564	198,000	62,572	31,163	72,911	336,575	115,877	9,405
1950	370,811,246	6,126,386	2,475,752	1,797,354	734,286	363,295	184,862	105,213	188,506	28,158	16,055	61,488	45,870	88,795	56,172
1951	316,180,429	7,086,086	2,799,096	1,915,094	806,673	444,950	266,336	137,351	181,938	39,912	42,542	82,243	152,826	127,640	66,507
1952	290,651,819	3,132,324	1,705,815	775,773	445,437	270,692	132,232	73,446	39,757	39,757	22,418	61,679	178,505	129,016	27,500
1953	313,678,413	6,661,781	3,106,857	1,629,393	754,329	365,359	237,616	114,682	51,171	71,238	53,180	52,325	78,568	102,980	35,103
1954	291,832,737	6,201,106	3,021,128	1,631,173	746,092	443,951	246,042	118,319	84,960	47,939	74,635	65,635	323,202	109,983	13,045
1955	209,501,774	7,546,821	3,669,444	1,728,975	803,406	417,353	232,324	125,324	57,127	51,621	84,500	82,774	98,230	30,130	4,150
1956	230,412,215	7,700,529	3,532,101	1,858,525	842,608	387,581	263,648	161,941	163,825	35,614	43,509	69,189	224,214	122,495	42,433
1957	230,890,971	6,207,510	3,127,186	1,371,577	716,025	323,117	219,088	83,485	84,570	23,971	34,731	48,790	61,022	80,408	30,207
1958	190,056,460	4,670,453	2,632,752	1,038,457	478,265	233,656	216,178	87,966	91,922	15,912	14,219	51,367	68,074	58,817	322
1959	200,900,990	3,553,782	2,553,782	1,304,631	790,689	363,656	255,679	145,340	141,998	24,852	25,999	55,319	22,130	105,354	73,953
1960	210,869,289	5,366,565	2,970,903	909,389	610,854	211,716	225,364	128,907	140,082	960	18,581	39,686	9,603	65,085	35,165

<sup>1</sup> Includes Finland and Poland prior to 1919.

<sup>2</sup> Includes Czechoslovakia and Hungary prior to 1920.

# United States Exports of Cotton, by Ports

[In running bales, including linters]

Source: New York Cotton Exchange

	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
Galveston . . .	2,494,504	1,929,111	2,080,874	2,854,503	2,081,307	3,086,023
New Orleans . . .	1,320,016	814,017	945,227	1,379,102	1,834,343	2,135,443
Mobile . . .	122,619	59,099	22,676	80,789	149,613	244,972
Savannah . . .	692,375	293,496	343,241	480,783	870,441	1,036,231
Charleston . . .	176,021	89,732	157,405	243,983	282,890	547,271
Wilmington . . .	107,175	98,900	95,050	108,213	99,506	139,658
Norfolk . . .	238,027	174,320	219,631	252,226	311,085	338,701
Baltimore . . .	7,759	2,369	3,259	397	10,458	4,208
New York . . .	202,776	302,169	542,951	505,510	297,060	393,573
Boston . . .	16,704	13,552	18,555	14,325	14,686	11,890
Philadelphia . . .	4,279	1,977	2,917	7,490	2,998	6,555
Newport News . . .	-	-	19	-	-	379
Brunswick . . .	29,480	28,477	50	-	400	-
Pensacola, etc. . .	10,821	9,245	11,950	8,490	20,107	11,370
Port Arthur . . .	-	-	-	-	-	-
Port Townsend . . .	90,959	9,632	47,134	84,111	57,120	82,663
San Pedro, etc. . .	61,186	18,869	30,248	78,970	57,623	161,187
San Francisco . . .	61,298	69,112	77,986	111,970	82,917	95,475
Portland, Ore. . .	1,150	-	-	-	-	600
Nogales . . .	-	200	-	-	-	-
Texas City, etc. . .	5,242	3,765	1,754	16,794	-	91,117
Corpus Christi . . .	651	3,534	274	13	30	8,187
El Paso . . .	47	2,850	57	53	4	2
Houston . . .	478,131	719,942	1,065,612	1,821,828	1,796,671	2,551,439
Portland, Me. . .	-	199,053	145,656	200,051	251,707	274,919
Jacksonville . . .	1,300	675	2,254	1,858	12,457	341
Georgetown . . .	-	-	-	-	-	-
Total . . .	6,122,520	4,844,096	5,814,780	8,251,459	8,233,423	11,222,204

# United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1921, 1923 and 1925

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods (over 12 inches in width) . . . . .	7,741,568,028	8,264,219,579	6,703,835,942
Shirtings (not silk striped or rayon striped) . . . . .	372,106,936	262,539,219	249,306,167
North Carolina . . . . .	69,948,031	61,350,157	56,014,065
Massachusetts . . . . .	72,346,499	53,142,974	74,369,085
South Carolina . . . . .	89,417,537	37,199,662	54,278,007
Shirtings (silk striped) . . . . .	10,866,710	78,685,447	51,413,734
Massachusetts . . . . .	- <sup>1</sup>	32,709,440	47,316,736
South Carolina . . . . .	- <sup>1</sup>	24,997,273	- <sup>1</sup>
Rhode Island . . . . .	- <sup>1</sup>	12,398,212	- <sup>1</sup>
Shirtings (rayon striped) . . . . .	72,423,104	- <sup>1</sup>	- <sup>1</sup>
Massachusetts . . . . .	22,157,363	- <sup>1</sup>	- <sup>1</sup>
North Carolina . . . . .	14,341,728	- <sup>1</sup>	- <sup>1</sup>
Rhode Island . . . . .	7,106,480	- <sup>1</sup>	- <sup>1</sup>
South Carolina . . . . .	23,537,288	- <sup>1</sup>	- <sup>1</sup>
Cloth of cotton and silk or other vegetable fibre and silk (except silk-striped shirting) . . . . .	177,106,868	150,848,235	36,558,908
Massachusetts . . . . .	102,219,041	103,099,673	16,730,079
Rhode Island . . . . .	21,980,761	17,627,283	- <sup>1</sup>
Lawns, nainsooks, cambries and similar muslins . . . . .	326,087,427	367,209,215	392,203,289
Massachusetts . . . . .	128,933,441	157,246,005	188,804,824
Connecticut . . . . .	35,303,649	51,613,296	58,187,624
North Carolina . . . . .	38,808,998	49,340,482	- <sup>1</sup>
Rhode Island . . . . .	43,018,788	45,503,046	53,672,221
South Carolina . . . . .	66,689,815	26,082,288	46,212,610
Voiles . . . . .	124,478,525	134,708,905	86,285,231
Massachusetts . . . . .	93,857,220	119,933,525	62,057,818
Rhode Island . . . . .	7,951,758	5,372,129	8,364,119
South Carolina . . . . .	5,879,722	- <sup>1</sup>	- <sup>1</sup>
Ginghams . . . . .	356,475,999	571,664,554	536,608,509
North Carolina . . . . .	115,052,313	163,296,966	122,719,438
Massachusetts . . . . .	77,980,136	136,695,791	137,880,098
South Carolina . . . . .	29,300,264	37,491,030	37,379,682
Print cloths . . . . .	1,166,374,053	1,578,196,293	1,157,680,495
South Carolina . . . . .	739,834,612	830,088,788	557,114,622
Massachusetts . . . . .	208,599,259	459,296,360	393,409,673
North Carolina . . . . .	104,535,543	119,174,230	97,450,230

<sup>1</sup> Not reported separately.

**United States Production of the Principal Cotton Piece Goods;  
and Yarns for Sale, 1921, 1923 and 1925 — (Continued)**

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods — <i>Con.</i>			
Sheetings . . . . .	1,638,168,738	1,695,520,069	1,600,998,979
South Carolina . . . . .	501,219,102	549,849,047	552,384,046
Georgia . . . . .	316,956,652	271,562,614	258,108,831
North Carolina . . . . .	225,007,412	184,051,205	141,612,847
Massachusetts . . . . .	95,439,280	136,433,893	137,893,022
Pillow tubing . . . . .	30,528,811	17,286,049	28,116,000
Maine . . . . .	13,193,637	6,838,615	15,496,615
Pile fabrics — plushes, velvets, velveteens, etc. . . . .	33,478,404	27,710,667	11,510,406
Pennsylvania . . . . .	21,575,608	17,039,775	6,105,570
Rhode Island . . . . .	5,093,956	4,885,496	— <sup>1</sup>
Corduroys . . . . .	21,593,116	27,388,676	16,355,725
Twills and sateens . . . . .	532,830,805	489,380,066	384,635,533
Massachusetts . . . . .	133,519,173	130,902,592	90,166,148
Georgia . . . . .	71,043,019	61,611,879	41,472,634
Connecticut . . . . .	44,083,993	44,365,575	46,508,323
Alabama . . . . .	42,301,355	36,920,779	28,833,424
Rhode Island . . . . .	41,702,529	47,906,219	35,654,728
South Carolina . . . . .	69,560,978	26,209,152	— <sup>1</sup>
Drills . . . . .	286,114,586	303,420,862	191,715,280
Alabama . . . . .	53,269,074	54,143,523	21,593,014
Georgia . . . . .	92,985,954	116,119,981	54,468,304
South Carolina . . . . .	77,357,241	75,103,202	63,916,287
Cotton flannel (Canton flannel, flannelettes and blanketings)	340,415,819	381,396,884	294,717,750
North Carolina . . . . .	134,847,018	146,958,460	108,845,957
Massachusetts . . . . .	66,280,654	100,925,303	84,790,910
New Hampshire . . . . .	69,067,378	69,933,971	50,122,152
Tobacco, cheese, butter, bunting and bandage cloths . . . .	451,633,354	402,312,139	274,255,642
Massachusetts . . . . .	242,175,661	248,276,400	153,374,313
South Carolina . . . . .	105,151,924	— <sup>1</sup>	— <sup>1</sup>
Denims . . . . .	180,491,656	225,640,344	168,126,957
Georgia . . . . .	32,779,149	32,591,652	19,989,343
New Hampshire . . . . .	11,920,016	15,429,494	11,790,288
North Carolina . . . . .	67,552,257	89,557,002	71,516,582
Ticks . . . . .	48,362,153	53,499,190	46,524,741
Georgia . . . . .	8,806,213	7,940,484	—
North Carolina . . . . .	14,872,377	17,336,236	13,036,545
Pennsylvania . . . . .	3,866,476	4,241,861	— <sup>1</sup>

<sup>1</sup> Not reported separately.

# United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1921, 1923 and 1925 — (Continued)

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods — <i>Con.</i>			
Osnaburgs . . . . .	118,068,963	109,101,142	100,039,127
Alabama . . . . .	22,908,569	13,046,238	18,414,425
Georgia . . . . .	39,046,869	32,460,448	22,290,605
South Carolina . . . . .	32,778,742	28,408,425	18,249,410
Bagging . . . . .	95,030,057	113,603,461	92,835,998
Bags made from fabric woven by same establishment . . . . .	12,693,953	48,314,025	— <sup>1</sup>
Tire duck . . . . .	40,761,508	68,258,927	51,722,845
Georgia . . . . .	15,776,838	7,656,161	12,992,271
Massachusetts . . . . .	3,796,113	17,921,361	11,059,044
North Carolina . . . . .	11,906,996	— <sup>1</sup>	— <sup>1</sup>
Cord fabrics for tires . . . . .	176,964,466	100,727,166	— <sup>1</sup>
Massachusetts . . . . .	41,417,980	28,019,743	— <sup>1</sup>
North Carolina . . . . .	24,822,855	—	—
Rhode Island . . . . .	16,375,338	15,178,951	43,933,691
Ounce duck . . . . .	161,883,782	139,221,366	97,033,262
Georgia . . . . .	49,955,488	38,114,787	31,343,847
Massachusetts . . . . .	11,687,072	12,072,914	—
Alabama . . . . .	41,017,234	29,134,834	20,950,042
Texas . . . . .	38,203,296	37,974,541	28,605,027
Numbered duck . . . . .	31,449,971	27,862,308	38,166,796
Georgia . . . . .	7,985,603	9,531,654	6,346,624
Maryland . . . . .	11,050,571	8,607,810	7,926,282
Mosquito netting and tarlatan . . . . .	21,094,700	37,383,959	38,057,754
Turkish towels and towelling . . . . .	50,662,751	47,445,632	39,244,281
Pennsylvania . . . . .	4,445,642	5,601,587	— <sup>1</sup>
All other Terry weaves . . . . .	1,212,325	3,310,490	3,282,485
Towels and towelling, wash cloths, bath mats, wiping and polishing cloths (except pile fabrics) . . . . .	75,902,999	75,199,965	80,680,384
Georgia . . . . .	13,244,485	9,689,892	— <sup>1</sup>
New Jersey . . . . .	8,264,282	7,720,013	— <sup>1</sup>
South Carolina . . . . .	12,078,475	— <sup>1</sup>	— <sup>1</sup>
Sheets and pillow cases . . . . .	41,416,435	32,099,010	21,421,807
Cotton blankets . . . . .	92,077,330	98,060,112	91,519,600
Massachusetts . . . . .	28,394,477	16,354,558	23,385,276

<sup>1</sup> Not reported separately.



# United States Production of the Principal Cotton Piece Goods; and Yarns for Sale, 1921, 1923 and 1925 — (Concluded)

Source: United States Bureau of the Census

Quantity for leading States that can be shown separately without disclosing the operations of individual establishments.

	1925	1923	1921
	Square Yards	Square Yards	Square Yards
Woven goods — <i>Con.</i>			
Cotton table damask, in the piece or otherwise . . . .	53,468,297	40,905,122	43,120,428
North Carolina . . . . .	20,751,735	22,934,267	21,527,922
Bed spreads and quilts (crochet, marseilles, and satin) . . .	52,636,525	35,690,784	31,827,991
North Carolina . . . . .	13,773,647	8,111,401	— <sup>1</sup>
South Carolina . . . . .	8,782,641	— <sup>1</sup>	— <sup>1</sup>
Cottonades and cotton worsteds	29,131,065	20,952,012	22,979,531
Pennsylvania . . . . .	6,245,201	3,820,789	— <sup>1</sup>
Tapestries . . . . .	15,737,233	20,683,704	10,414,035
Pennsylvania . . . . .	10,351,338	7,771,051	7,829,032
Other woven goods (over 12 inches in width) . . . . .	477,432,119	430,424,566	370,542,581
	Pounds	Pounds	Pounds
Yarns for sale . . . . .	626,356,804	620,725,267	484,218,907
North Carolina . . . . .	269,327,951	259,579,191	198,917,839
Georgia . . . . .	96,851,514	86,553,515	68,827,236
Massachusetts . . . . .	68,914,956	79,272,641	71,094,939
Alabama . . . . .	48,183,619	34,068,864	30,921,330
South Carolina . . . . .	50,469,439	38,402,586	27,615,439
Thread . . . . .	37,585,368	31,645,537	23,275,618
Massachusetts . . . . .	13,209,648	9,810,335	6,420,312
Cotton waste, produced for sale .	417,094,448	378,640,237	271,775,280
Massachusetts . . . . .	95,246,139	106,420,255	93,489,739
North Carolina . . . . .	82,974,410	65,938,552	38,965,161
South Carolina . . . . .	59,230,427	47,279,031	35,390,731

<sup>1</sup> Not reported separately.

### Principal Classes of Cotton Goods produced by Sections, 1921, 1923 and 1925

	1925	1923	1921	INCREASE OR DECREASE (PER CENT)	
				1923 to 1925	1921 to 1923
<i>All Woven Goods (over 12 inches Wide)</i>					
United States:					
Square yards . . . . .	7,741,568,028	8,264,219,579	6,703,835,942	-6.3	23.3
Value . . . . .	\$1,245,139,031	\$1,398,901,764	\$956,731,860	-10.95	46.2
Cotton-growing States:					
Square yards . . . . .	4,842,005,472	4,767,309,272	3,620,559,108	1.6	31.7
Value . . . . .	\$653,000,522	\$706,513,963	\$422,341,753	-7.6	67.3
New England:					
Square yards . . . . .	2,607,368,068	3,143,580,641	2,809,820,228	-17.1	11.9
Value . . . . .	\$459,987,228	\$563,108,841	\$444,435,688	-18.3	26.7
<i>Sheetings</i>					
United States:					
Square yards . . . . .	1,638,168,738	1,695,520,069	1,600,998,979	-3.9	5.9
Value . . . . .	\$180,357,058	\$208,338,025	\$158,216,314	-13.5	31.7
Cotton-growing States:					
Square yards . . . . .	1,318,671,398	1,305,829,140	1,195,389,693	1.0	9.2
Value . . . . .	\$128,586,070	\$146,532,472	\$103,793,846	-12.2	41.2
New England:					
Square yards . . . . .	270,166,289	329,035,866	352,571,097	-17.9	-6.7
Value . . . . .	\$42,697,037	\$50,158,249	\$45,870,433	-14.9	9.3
<i>Lawns, Nainsooks, Cambrics and Similar Muslins</i>					
United States:					
Square yards . . . . .	326,087,427	367,209,215	392,203,289	-11.2	-6.4
Value . . . . .	\$43,323,433	\$57,277,453	\$58,408,313	-29.6	-1.9
Cotton-growing States:					
Square yards . . . . .	105,498,813	87,501,636	78,278,961	20.6	11.8
Value . . . . .	\$10,724,273	\$10,348,294	\$7,805,712	4.6	32.6
New England:					
Square yards . . . . .	215,966,959	268,066,419	313,824,113	-24.1	-14.6
Value . . . . .	\$31,906,552	\$46,371,298	\$50,501,560	-32.0	-8.2

# Principal Classes of Cotton Goods produced by Sections, 1921, 1923 and 1925 — (Concluded)

	1925	1923	1921	INCREASE OR DECREASE (PER CENT)	
				1923 to 1925	1921 to 1923
<i>Twills, Sateens, etc.</i>					
United States:					
Square yards . . . . .	532,830,805	489,380,066	384,635,533	9.0	27.2
Value . . . . .	\$84,133,051	\$91,589,275	\$51,834,924	-8.1	76.7
Cotton-growing States:					
Square yards . . . . .	227,710,989	160,479,897	109,560,311	41.8	46.5
Value . . . . .	\$35,635,823	\$31,770,025	\$13,993,289	12.1	127.0
New England:					
Square yards . . . . .	274,708,851	288,703,542	234,427,583	-4.9	23.2
Value . . . . .	\$44,307,626	\$52,894,403	\$33,453,605	-16.3	58.1
<i>Tobacco, Cheese, Butter, Bunting and Bandage Cloths</i>					
United States:					
Square yards . . . . .	451,633,354	402,312,139	274,255,642	12.3	46.7
Value . . . . .	\$16,269,354	\$20,110,478	\$10,023,745	-19.1	100.6
Cotton-growing States:					
Square yards . . . . .	123,937,084	137,418,047	98,068,082	-9.8	40.1
Value . . . . .	\$4,450,282	\$5,195,907	\$2,723,156	-14.3	90.8
New England:					
Square yards . . . . .	245,830,893	254,833,147	153,374,313	-3.5	66.2
Value . . . . .	\$9,599,542	\$14,263,728	\$6,495,213	-32.8	119.6
<i>Yarns for Sale</i>					
United States:					
Pounds . . . . .	626,356,804	620,725,267	484,218,907	.91	28.2
Value . . . . .	\$313,060,245	\$348,681,605	\$218,555,043	-11.4	59.5
Cotton-growing States:					
Pounds . . . . .	490,781,024	451,634,879	347,875,291	8.7	29.8
Value . . . . .	\$233,256,323	\$232,994,306	\$128,267,472	.11	81.6
New England:					
Pounds . . . . .	109,122,875	113,309,662	104,393,496	-3.7	8.5
Value . . . . .	\$68,178,429	\$79,800,563	\$77,742,325	-14.6	2.6

# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
CARDED BROADCLOTHS (GRAY ONLY) <sup>1</sup>												
First quarter	-	-	-	-	-	-	-	23,180	22,882	29,409	767	17,549
Second quarter	-	-	-	-	-	-	7,378	25,877	22,924	16,360	3,720	10,985
Third quarter	-	-	-	-	-	-	8,156	29,633	25,627	24,855	7,726	10,213
Fourth quarter	-	-	-	-	-	-	9,247	30,714	32,779	31,203	5,061	8,637
Totals	-	-	-	-	-	-	9,145	109,404	104,212	101,827	-	-
CHAMBRAYS												
First quarter	11,114	40,536	31,859	25,267	23,618	12,507	12,106	45,744	42,558	55,963	17,901	29,354
Second quarter	9,857	33,804	30,932	29,021	26,490	10,596	11,708	44,943	41,301	43,230	21,543	31,283
Third quarter	8,237	28,532	40,319	63,159	14,703	33,436	11,096	39,218	41,145	42,296	19,616	32,434
Fourth quarter	11,673	42,072	42,060	24,573	14,715	15,949	11,947	42,123	37,692	27,827	24,047	22,569
Totals	10,220	144,944	145,170	142,020	-	-	11,714	172,028	162,696	169,316	-	-
CHEVIOTS												
First quarter	3,626	12,400	8,620	6,624	13,495	5,058	3,783	12,054	12,036	17,777	10,802	11,365
Second quarter	3,177	10,777	11,097	11,725	13,175	5,086	4,428	15,224	14,065	18,298	12,021	15,658
Third quarter	2,645	9,741	13,699	15,707	9,217	7,694	4,919	16,363	19,181	16,514	9,203	12,991
Fourth quarter	3,726	13,493	12,826	10,756	9,884	5,624	5,135	17,547	16,286	10,267	10,464	6,972
Totals	3,293	46,411	46,242	44,812	-	-	4,566	62,088	61,508	62,856	-	-
DENIMS												
First quarter	-	42,351	48,428	47,546	19,403	9,456	-	-	-	-	-	-
Second quarter	-	39,449	37,559	35,809	21,293	7,766	-	-	-	-	-	-
Third quarter	-	41,136	51,923	83,394	10,806	40,137	-	-	-	-	-	-
Fourth quarter	-	49,327	47,768	44,247	12,365	36,016	-	-	-	-	-	-
Totals	-	172,263	185,378	211,656	-	-	-	-	-	-	-	-

<sup>1</sup> January 1 to August 20 compiled by Association of Cotton Textile Merchants of New York and balance of year by The Cotton-Textile Institute, Inc., and Association of Cotton Textile Merchants of New York. Quantity figures before and after that date are not comparable.

# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
DENIMS, WHITE BACK, 2.20 YARD												
First quarter	-	-	-	-	-	-	-	32,709	37,106	45,133	2,626	32,925
Second quarter	-	-	-	-	-	-	-	35,748	35,508	35,229	2,806	32,646
Third quarter	-	-	-	-	-	-	-	31,908	31,755	28,428	1,019	27,319
Fourth quarter	-	-	-	-	-	-	-	32,929	26,946	14,791	7,002	15,164
Totals	-	-	-	-	-	-	-	133,294	133,315	123,581	-	-
DENIMS, EXCLUDING WHITE BACK, 2.20 YARD												
First quarter	-	-	-	-	-	-	-	21,850	24,339	30,293	2,853	17,672
Second quarter	-	-	-	-	-	-	-	21,075	20,718	21,960	3,210	18,914
Third quarter	-	-	-	-	-	-	-	23,364	24,645	22,589	1,929	16,858
Fourth quarter	-	-	-	-	-	-	-	24,353	21,927	14,456	4,355	9,387
Totals	-	-	-	-	-	-	-	90,642	91,629	89,298	-	-
THREE-LEAF DRILLS, 40 INCHES AND NARROWER												
First quarter	3,687	16,719	16,843	13,849	7,718	3,275	2,343	11,527	12,722	14,348	4,340	3,397
Second quarter	2,741	10,978	7,969	6,009	11,027	1,915	2,037	10,662	10,932	11,472	4,070	3,937
Third quarter	2,030	8,744	13,750	15,895	6,021	3,760	1,994	9,349	10,746	9,426	2,673	2,617
Fourth quarter	2,107	9,718	10,294	8,215	5,535	1,771	1,335	9,994	6,716	6,421	5,951	2,322
Totals	2,641	46,159	48,466	43,968	-	-	1,927	41,532	41,116	41,667	-	-
DRILLS, 40 INCHES AND NARROWER, EXCLUDING THREE-LEAF												
First quarter	5,068	19,365	18,628	17,130	6,112	2,828	3,361	13,686	17,389	21,201	2,223	6,500
Second quarter	3,882	14,666	14,699	14,667	6,079	2,196	3,374	13,184	14,497	16,460	940	8,523
Third quarter	4,093	13,350	15,292	16,834	4,137	3,738	4,133	15,373	15,352	13,352	990	8,482
Fourth quarter	3,754	13,475	11,686	10,696	5,926	2,748	6,445	20,893	14,904	13,479	6,979	7,057
Totals	4,199	60,856	60,305	58,727	-	-	4,328	63,216	62,163	66,472	-	-

# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
DRILLS AND TWILLS, WIDER THAN 40 INCHES												
First quarter	-	7,666	7,003	3,141	1,005	2,637	-	6,780	7,185	7,276	1,257	3,188
Second quarter	-	5,020	3,808	2,641	2,217	1,470	-	6,897	6,019	6,482	2,135	3,651
Third quarter	-	4,378	5,067	5,561	1,528	2,164	-	5,942	5,267	4,317	2,810	2,901
Fourth quarter	-	5,013	4,879	5,812	1,662	3,097	-	5,715	4,336	5,939	4,189	4,304
Totals	-	22,077	20,757	17,355	-	-	-	25,334	22,807	24,214	-	-
COTTON DUCK, WIDE (POUNDS)												
First quarter	-	4,610,023	4,609,106	-	518,315	-	-	4,947,912	4,517,469	-	1,600,842	-
Second quarter	-	4,867,190	693,125	-	1,013,943	-	-	4,735,775	4,493,566	-	2,203,051	-
Third quarter	-	3,688,115	3,415,814	-	1,286,274	-	-	4,280,284	3,718,446	-	2,764,880	-
Fourth quarter	-	4,259,925	4,375,800	-	1,170,369	-	-	4,702,579	3,947,574	-	3,519,894	-
Totals	-	17,425,283	16,772,312	-	-	-	-	18,726,550	16,377,055	-	-	-
ALL SAIL DUCK (POUNDS)												
First quarter	-	777,552	809,033	-	195,025	-	-	1,012,020	956,154	-	241,819	-
Second quarter	-	763,219	693,125	-	265,149	-	-	795,908	710,741	-	327,016	-
Third quarter	-	517,915	560,791	-	252,273	-	-	764,826	694,586	-	397,256	-
Fourth quarter	-	709,779	776,089	-	185,983	-	-	737,957	615,472	-	489,741	-
Totals	-	2,798,495	2,839,018	-	-	-	-	3,310,711	3,006,953	-	-	-
ALL ARMY DUCK (POUNDS)												
First quarter	-	2,868,536	2,832,769	-	386,056	-	-	3,313,321	3,513,739	-	254,434	-
Second quarter	-	2,686,254	2,430,414	-	611,896	-	-	3,222,325	3,222,325	-	139,655	-
Third quarter	-	2,226,424	2,402,031	-	466,289	-	-	3,528,917	3,207,074	-	461,498	-
Fourth quarter	-	3,109,501	3,120,938	-	454,852	-	-	3,246,871	2,932,949	-	775,420	-
Totals	-	10,890,715	10,806,152	-	-	-	-	13,196,655	12,876,087	-	-	-

## Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
HOSE AND BELTING, DUCK (POUNDS)												
First quarter	-	8,882,018	8,921,291	-	274,218	-	-	8,571,597	8,658,594	-	314,423	-
Second quarter	-	7,690,430	7,654,405	-	310,243	-	-	7,983,851	7,890,693	-	437,581	-
Third quarter	-	8,092,187	8,124,695	-	277,735	-	-	7,529,795	7,526,872	-	440,504	-
Fourth quarter	-	10,165,605	10,009,920	-	431,420	-	-	8,198,619	8,255,685	-	403,438	-
Totals	-	34,828,240	34,710,311	-	-	-	-	32,283,862	32,311,844	-	-	-
SINGLE FILLING FLAT DUCKS, 29 INCHES, 8 OUNCES												
First quarter	-	-	-	-	-	-	-	-	-	-	-	-
Second quarter	-	-	-	-	-	-	-	6,993	6,482	11,641	5,285	7,540
Third quarter	-	-	-	-	-	-	-	9,122	12,410	5,126	1,997	556
Fourth quarter	-	-	-	-	-	-	-	5,686	2,026	2,271	5,657	801
Totals	-	-	-	-	-	-	-	21,801	20,918	19,341	-	-
SINGLE FILLING FLAT DUCKS, EXCLUDING 29 INCHES, 8 OUNCES												
First quarter	-	-	-	-	-	-	-	-	-	-	-	-
Second quarter	-	-	-	-	-	-	-	9,344	9,433	13,499	1,845	11,228
Third quarter	-	-	-	-	-	-	-	7,950	9,210	2,077	3,555	4,065
Fourth quarter	-	-	-	-	-	-	-	8,085	5,597	4,899	6,043	3,277
Totals	-	-	-	-	-	-	-	25,379	24,270	20,385	-	-
DOUBLE FILLING FLAT DUCKS												
First quarter	-	-	-	-	-	-	-	-	-	-	-	-
Second quarter	-	-	-	-	-	-	-	3,693	3,155	3,129	903	1,897
Third quarter	-	-	-	-	-	-	-	2,797	2,362	1,560	1,338	895
Fourth quarter	-	-	-	-	-	-	-	2,420	1,841	2,123	1,917	1,177
Totals	-	-	-	-	-	-	-	8,910	7,358	6,812	-	-

## Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

		1926					1927						
		THOUSANDS OF YARDS					THOUSANDS OF YARDS						
		Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
CANTON FLANNELS, FOR THE MITTEN TRADE													
First quarter	.	—	—	—	—	—	—	—	9,671	11,047	18,949	3,956	10,769
Second quarter	.	—	—	—	—	—	—	—	10,194	10,874	8,058	3,276	7,953
Third quarter	.	—	—	—	—	—	—	—	8,803	9,618	9,021	2,461	7,356
Fourth quarter	.	—	—	—	—	—	—	—	11,044	11,334	16,903	2,171	12,925
Totals	.	—	—	—	—	—	—	—	39,712	42,873	52,931	—	—
GINGHAMS, CLASS A													
First quarter	.	956	2,767	5,874	5,613	8,055	1,162	1,287	3,926	7,040	8,323	3,907	2,542
Second quarter	.	1,171	3,607	691	239	10,971	710	1,517	4,951	3,566	6,132	3,352	3,108
Third quarter	.	719	1,772	4,454	3,724	9,019	1,440	1,146	3,385	3,374	1,802	3,103	1,336
Fourth quarter	.	629	1,668	3,606	3,425	7,081	1,259	1,280	3,662	2,733	2,789	4,092	1,392
Totals	.	869	9,814	13,895	13,731	—	—	1,308	15,924	18,913	19,046	—	—
GINGHAMS, CLASS B													
First quarter	.	4,800	15,106	17,467	18,487	12,582	5,887	4,326	13,656	15,225	21,240	5,758	13,353
Second quarter	.	3,956	12,522	15,492	13,524	9,612	3,919	4,240	13,890	11,949	15,660	7,699	17,064
Third quarter	.	4,264	13,059	14,768	18,894	7,903	8,045	4,305	13,939	14,186	9,072	7,452	11,950
Fourth quarter	.	4,820	14,939	15,535	14,828	7,327	7,338	4,060	13,231	10,051	7,102	10,632	9,001
Totals	.	4,475	55,646	63,262	65,733	—	—	4,233	54,716	51,411	53,074	—	—
GINGHAMS, CLASS C													
First quarter	.	10,867	27,041	32,135	32,844	27,589	20,046	11,834	31,944	37,960	41,615	18,027	20,151
Second quarter	.	12,429	32,440	33,356	28,984	26,073	15,674	12,007	33,503	28,901	32,320	22,629	23,570
Third quarter	.	10,000	26,789	32,151	33,267	21,311	16,790	9,377	26,563	29,548	30,224	19,644	24,246
Fourth quarter	.	10,541	28,260	25,528	25,234	24,043	16,496	9,505	26,990	28,779	17,626	17,855	13,093
Totals	.	10,959	114,530	123,170	120,329	—	—	10,681	119,000	125,188	121,785	—	—



## Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

		1926					1927						
		THOUSANDS OF YARDS					THOUSANDS OF YARDS						
		Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
GINGHAMS, CLASS D													
First quarter	.	1,518	2,429	3,145	3,320	8,897	1,369	1,620	2,916	4,946	5,489	4,729	1,338
Second quarter	.	1,684	2,952	3,143	2,486	8,706	712	1,520	3,171	2,660	2,877	5,240	1,555
Third quarter	.	931	1,378	2,491	3,172	7,593	1,393	1,186	2,229	2,203	1,782	5,266	1,134
Fourth quarter	.	1,569	2,904	3,738	3,140	6,759	795	1,069	2,168	2,714	2,910	4,720	1,330
Totals	.	1,425	9,663	12,517	12,118	—	—	1,349	10,484	12,523	13,058	—	—
GINGHAMS, CLASS E													
First quarter	.	812	1,122	1,631	1,846	3,171	684	1,071	1,734	2,677	2,761	3,455	474
Second quarter	.	1,446	2,030	1,351	1,977	3,850	310	1,247	1,838	1,318	1,087	3,975	243
Third quarter	.	1,202	1,429	1,203	1,408	4,076	515	890	1,078	1,563	1,569	3,490	249
Fourth quarter	.	1,150	1,676	1,354	1,226	4,398	387	626	1,020	1,063	1,146	3,447	332
Totals	.	1,152	6,257	5,539	5,457	—	—	958	5,670	6,621	6,566	—	—
JEANS <sup>1</sup>													
First quarter	.	1,893	5,927	6,192	5,596	2,824	937	2,461	7,653	8,052	10,265	407	4,005
Second quarter	.	1,655	4,799	4,650	4,173	2,973	460	2,519	7,922	7,783	8,693	546	4,915
Third quarter	.	1,333	3,685	5,502	6,614	1,156	1,572	2,664	8,442	8,355	7,686	633	4,246
Fourth quarter	.	1,905	5,811	6,161	6,381	806	1,792	2,933	9,167	5,828	5,565	3,972	3,983
Totals	.	1,696	20,222	22,505	22,764	—	—	2,644	33,184	30,018	32,209	—	—
KHAKE, TWILLS													
First quarter	.	—	—	—	—	—	—	—	—	—	—	—	—
Second quarter	.	—	—	—	—	—	—	—	6,054	7,153	7,652	1,822	4,503
Third quarter	.	—	—	—	—	—	—	—	9,126	7,006	6,476	3,942	3,973
Fourth quarter	.	—	—	—	—	—	—	—	6,732	4,889	4,832	5,835	3,966
Totals	.	—	—	—	—	—	—	—	4,135	5,443	3,860	4,527	2,383
Totals	.	—	—	—	—	—	—	—	26,047	24,441	22,820	—	—

<sup>1</sup> 1926 figures for Gray cloths only.

# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

		1926					1927						
		THOUSANDS OF YARDS					THOUSANDS OF YARDS						
		Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
KHAKI, DRILLS													
First quarter	.	—	—	—	—	—	—	—	1,821	2,001	2,900	689	1,172
Second quarter	.	—	—	—	—	—	—	—	2,596	2,566	3,215	719	1,821
Third quarter	.	—	—	—	—	—	—	—	2,871	2,818	2,660	772	1,663
Fourth quarter	.	—	—	—	—	—	—	—	2,863	2,625	2,613	1,010	1,651
Totals	.	—	—	—	—	—	—	—	10,151	10,010	11,388	—	—
KHAKI, JEANS													
First quarter	.	—	—	—	—	—	—	—	3,050	3,326	4,105	697	1,730
Second quarter	.	—	—	—	—	—	—	—	4,081	4,248	5,531	533	3,013
Third quarter	.	—	—	—	—	—	—	—	4,303	3,761	3,502	1,075	2,754
Fourth quarter	.	—	—	—	—	—	—	—	4,054	3,657	3,951	1,472	3,048
Totals	.	—	—	—	—	—	—	—	15,491	14,992	17,089	—	—
OSNABURGS, 30 INCHES, 7 OUNCES <sup>1</sup>													
First quarter	.	1,997	16,060	16,937	20,964	5,284	10,177	1,712	14,476	14,910	15,371	453	10,767
Second quarter	.	1,941	15,222	19,918	18,683	5,888	8,942	1,910	15,893	15,814	10,565	532	5,518
Third quarter	.	1,966	15,625	13,731	8,162	2,482	3,373	1,962	15,870	12,055	8,012	4,347	1,505
Fourth quarter	.	1,577	12,928	11,523	21,456	887	10,506	1,478	11,422	11,392	11,391	4,377	1,504
Totals	.	1,870	59,835	65,109	69,265	—	—	1,773	57,661	54,171	45,369	—	—
TOTAL OSNABURGS, EXCLUDING 30 INCHES, 7 OUNCES <sup>1</sup>													
First quarter	.	1,109	6,126	6,074	6,105	2,049	4,056	2,425	17,161	16,795	16,779	2,141	8,551
Second quarter	.	1,238	8,163	8,680	7,219	1,532	2,595	2,633	16,153	15,806	16,477	2,188	9,205
Third quarter	.	1,351	9,162	9,556	14,877	1,438	7,916	2,316	13,672	13,985	11,310	2,175	9,580
Fourth quarter	.	1,553	11,391	11,651	12,288	1,775	8,550	2,968	18,132	15,398	10,859	4,909	4,991
Totals	.	1,488	35,742	35,964	40,489	—	—	2,585	65,118	61,984	58,425	—	—

<sup>1</sup> January 1 to August 20 compiled by Association of Cotton Textile Merchants of New York and balance of year by The Cotton-Textile Institute, Inc., and Association of Cotton Textile Merchants of New York. Quantity figures before and after that date are not comparable.

## Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PAJAMA CHECKS, 36½ INCHES, 72/80, 4.70 YARD <sup>1</sup>												
First quarter	—	9,591	9,837	23,152	144	17,655	—	11,312	10,984	5,491	3,843	4,152
Second quarter	—	11,278	13,523	13,792	899	17,924	—	8,205	6,079	5,969	5,067	5,070
Third quarter	—	16,293	11,694	13,975	2,408	17,205	—	7,464	9,821	7,798	3,047	3,047
Fourth quarter	—	16,753	15,616	8,086	3,515	9,645	—	8,069	40,412	9,813	1,206	2,448
Totals	—	56,825	53,709	59,005	—	—	—	31,987	37,296	30,099	—	—
PAJAMA CHECKS, EXCLUDING 36½ INCHES, 72/80, 4.70 YARD <sup>1</sup>												
First quarter	—	4,889	5,221	10,383	1,073	6,498	—	10,588	10,902	8,030	428	3,128
Second quarter	—	5,740	5,312	7,331	1,504	8,520	—	10,518	9,026	14,462	1,920	8,564
Third quarter	—	6,901	7,812	8,656	590	9,361	—	9,785	9,635	4,821	2,010	3,693
Fourth quarter	—	7,527	7,375	4,011	742	6,000	—	8,977	8,888	7,027	2,099	1,832
Totals	—	25,057	25,730	30,384	—	—	—	39,868	38,511	34,343	—	—
PLAIDS, 4.50 AND LIGHTER												
First quarter	680	2,528	1,371	1,070	3,226	414	527	1,818	2,176	3,291	3,344	1,599
Second quarter	456	1,464	357	633	1,333	687	378	1,308	2,150	5,319	2,802	1,768
Third quarter	832	2,819	4,473	5,043	2,979	1,557	750	2,782	4,160	2,942	1,404	3,550
Fourth quarter	788	2,808	1,885	812	3,902	481	1,073	4,379	3,170	727	2,613	1,107
Totals	689	9,619	7,789	7,558	—	—	682	10,367	11,636	12,279	—	—
PRINT CLOTH FANCIES <sup>1</sup>												
First quarter	7,010	15,732	15,738	17,576	2,969	11,620	8,362	20,050	22,227	24,313	1,032	18,177
Second quarter	6,932	15,626	14,719	16,147	3,176	13,018	8,750	21,505	20,970	23,298	1,367	20,805
Third quarter	6,794	15,335	13,445	14,129	3,166	11,802	11,635	29,046	26,688	29,230	3,925	23,317
Fourth quarter	7,305	16,237	16,194	20,783	3,209	16,391	11,170	29,332	29,388	20,603	3,869	14,562
Totals	7,010	62,930	61,996	68,605	—	—	9,979	99,933	99,273	97,444	—	—

<sup>1</sup> January 1 to August 20 compiled by Association of Cotton Textile Merchants of New York and balance of year by The Cotton-Textile Institute, Inc., and Association of Cotton Textile Merchants of New York. Quantity figures before and after that date are not comparable.

# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PRINT CLOTHS NARROWER THAN 36 INCHES — 27 INCHES, 64/60, 7.60 YARD <sup>1</sup>												
First quarter	3,906	13,832	12,839	11,789	5,753	3,127	3,639	13,377	19,014	21,427	891	5,651
Second quarter	4,328	14,444	13,678	11,909	6,519	1,358	3,466	12,163	12,633	13,476	421	6,494
Third quarter	4,064	12,522	14,963	15,212	4,078	1,607	4,007	15,581	15,631	16,704	371	7,567
Fourth quarter	3,823	12,894	10,444	12,075	6,528	3,238	4,144	15,596	12,938	16,783	3,029	2,012
Totals	4,030	53,692	51,924	50,985	—	—	3,814	56,717	60,216	58,990	—	—
PRINT CLOTHS NARROWER THAN 36 INCHES — EXCLUDING 27 INCHES, 64/60, 7.60 YARD <sup>1</sup>												
First quarter	3,946	15,437	14,252	12,223	8,541	1,800	3,030	11,964	11,719	15,785	2,169	6,445
Second quarter	3,014	10,642	12,574	12,142	6,609	1,368	2,958	11,677	10,996	10,243	2,850	5,692
Third quarter	2,132	7,380	12,294	13,063	1,695	2,137	6,024	22,066	20,392	34,640	4,524	19,940
Fourth quarter	2,415	9,146	8,917	9,159	1,924	2,379	10,390	38,330	31,801	22,714	11,053	10,853
Totals	2,876	42,605	38,037	46,587	—	—	5,000	84,037	74,908	83,382	—	—
PRINT CLOTHS 36 INCHES AND WIDER — 38½ INCHES, 64/60, 5.35 YARD <sup>1</sup>												
First quarter	—	65,388	63,040	53,526	8,990	20,780	19,793	70,735	72,348	72,339	4,946	34,986
Second quarter	—	55,338	54,800	42,713	9,328	8,693	16,866	60,131	61,261	56,330	3,816	30,664
Third quarter	—	39,123	64,689	81,218	3,952	23,212	17,714	63,284	64,378	68,285	2,352	34,371
Fourth quarter	—	60,868	58,261	68,044	6,559	34,995	22,479	80,237	78,492	75,331	4,267	31,210
Totals	—	240,717	240,800	245,501	—	—	19,213	274,387	276,679	272,894	—	—
PRINT CLOTHS 36 INCHES AND WIDER — 39 INCHES, 68/72, 4.75 YARD <sup>1</sup>												
First quarter	—	38,758	33,982	26,253	5,448	7,167	10,429	27,972	35,193	38,478	485	16,144
Second quarter	—	30,922	22,832	17,091	1,426	1,426	9,751	25,704	25,076	28,144	1,113	19,212
Third quarter	—	27,432	30,678	38,887	10,292	9,635	14,500	40,165	40,293	38,870	983	17,787
Fourth quarter	—	20,166	31,752	34,976	7,706	12,859	17,566	49,616	45,943	38,305	4,636	10,149
Totals	—	126,278	119,244	117,207	—	—	13,061	143,457	146,507	143,797	—	—

<sup>1</sup> January 1 to August 20 compiled by Association of Cotton Textile Merchants of New York and balance of year by The Cotton-Textile Institute, Inc., and Association of Cotton Textile Merchants of New York. Quantity figures before and after that date are not comparable.

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PRINT CLOTHS, 36 INCHES AND WIDER, EXCLUDING 38½ INCHES, 64/60, 5-35 YARD, AND 39 INCHES, 68/72, 4-75 YARD <sup>1</sup>												
First quarter	-	81,079	79,967	67,349	9,214	15,724	19,651	77,782	89,108	96,327	5,023	41,119
Second quarter	-	79,195	59,249	51,632	29,160	8,167	22,000	87,128	82,075	87,069	10,376	46,713
Third quarter	-	78,747	93,536	113,276	14,371	27,847	29,589	116,589	106,897	134,555	20,068	71,351
Fourth quarter	-	78,831	76,853	82,966	16,349	33,900	37,061	148,772	137,391	128,351	31,449	65,311
Totals	-	317,852	309,605	315,163	-	-	27,075	430,571	415,471	446,885	-	-
HEAVY WARP SATEENS												
First quarter	1,243	3,854	3,946	3,555	1,279	792	1,720	6,127	5,976	6,426	619	1,952
Second quarter	839	2,486	2,256	2,094	1,509	630	1,521	5,268	4,953	5,605	964	2,604
Third quarter	830	2,637	3,875	5,273	271	2,028	1,251	4,029	4,070	3,005	923	1,539
Fourth quarter	1,370	5,093	4,866	4,340	498	1,502	1,282	4,616	4,147	1,802	1,392	2,191
Totals	1,070	14,070	14,943	15,262	-	-	1,443	20,040	19,146	19,838	-	-
SATEENS, WIDER THAN 40 INCHES												
First quarter	-	6,630	5,629	6,491	1,119	6,851	-	3,791	3,996	2,846	2,329	2,291
Second quarter	-	4,239	2,609	1,188	2,749	5,430	-	2,624	2,828	2,692	2,125	2,155
Third quarter	-	3,348	3,348	3,066	2,749	5,088	-	2,519	3,381	3,780	1,263	2,504
Fourth quarter	-	3,502	3,717	2,070	2,534	3,441	-	2,848	2,564	1,986	1,547	1,926
Totals	-	17,719	15,303	12,755	-	-	-	11,782	12,769	11,254	-	-
SHEETINGS, WIDER THAN 40 INCHES												
First quarter	-	6,983	7,768	5,969	1,126	2,947	-	7,430	8,983	11,196	3,326	5,747
Second quarter	-	7,213	5,380	4,096	2,939	1,063	-	8,160	8,246	9,036	3,249	6,537
Third quarter	-	6,701	5,560	5,694	4,100	1,797	-	8,553	8,331	6,140	3,462	1,346
Fourth quarter	-	7,653	6,254	7,991	4,879	3,534	-	7,477	7,461	9,221	3,478	6,109
Totals	-	27,930	24,962	23,750	-	-	-	31,620	33,021	35,596	-	-

<sup>1</sup> January 1 to August 20 compiled by Association of Cotton Textile Merchants of New York and balance of year by The Cotton-Textile Institute, Inc., and Association of Cotton Textile Merchants of New York. Quantity figures before and after that date are not comparable.

## Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15s INCLUSIVE) 40 INCHES, 48/48, 2.85 YARD												
First quarter . . . . .	1,899	7,264	8,875	7,840	315	2,842	3,063	12,434	12,341	15,558	412	7,580
Second quarter . . . . .	2,538	9,739	8,184	6,193	1,870	851	2,955	12,867	12,039	9,218	1,240	4,709
Third quarter . . . . .	2,037	7,850	9,836	9,373	1,347	2,314	2,569	11,511	11,512	11,813	1,199	4,970
Fourth quarter . . . . .	1,867	7,138	8,166	10,165	319	4,313	2,960	12,507	11,520	10,426	2,186	3,876
Totals . . . . .	2,085	31,991	33,598	34,034	—	—	2,894	49,319	47,432	47,015	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15s INCLUSIVE) EXCLUDING 40 INCHES, 48/48, 2.85 YARD												
First quarter . . . . .	2,970	12,765	14,648	13,106	4,981	2,056	2,874	12,099	16,421	17,686	3,942	3,754
Second quarter . . . . .	3,553	13,181	9,924	9,254	8,238	1,386	2,940	12,119	13,539	15,228	2,522	5,443
Third quarter . . . . .	3,141	12,277	14,276	16,053	6,239	3,163	3,713	15,553	14,902	14,146	3,173	4,687
Fourth quarter . . . . .	3,474	14,002	11,977	11,303	8,264	2,489	4,253	16,940	12,184	12,388	7,929	4,891
Totals . . . . .	3,284	52,225	50,825	49,716	—	—	3,445	56,711	57,046	59,448	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16s TO 21s INCLUSIVE) 36 TO 37 INCHES, 48/48, 4.00 YARD												
First quarter . . . . .	3,038	15,483	15,111	15,222	3,276	3,030	4,248	17,618	20,740	22,998	1,783	8,653
Second quarter . . . . .	3,498	10,780	11,135	13,568	2,921	3,463	4,529	20,337	20,172	22,304	2,148	10,785
Third quarter . . . . .	5,051	19,470	20,756	22,012	1,635	6,719	4,319	19,276	18,807	14,373	2,527	6,261
Fourth quarter . . . . .	4,808	18,416	15,146	14,822	4,905	6,395	4,078	17,681	10,739	8,565	9,469	4,087
Totals . . . . .	4,174	64,149	62,148	65,624	—	—	4,293	75,112	70,548	68,240	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16s TO 21s INCLUSIVE) EXCLUDING 36 TO 37 INCHES, 48/48, 4.00 YARD												
First quarter . . . . .	4,828	23,296	22,122	19,588	3,471	3,333	5,161	25,169	26,795	29,749	3,895	9,819
Second quarter . . . . .	4,106	18,821	17,207	15,998	5,085	2,124	4,582	22,350	22,903	25,694	3,342	12,610
Third quarter . . . . .	3,485	14,088	17,227	22,972	1,946	6,969	4,746	22,500	22,157	18,027	3,685	8,480
Fourth quarter . . . . .	3,186	23,230	19,655	19,551	5,521	6,865	5,310	25,569	17,818	19,632	11,436	10,294
Totals . . . . .	4,404	79,435	76,211	77,209	—	—	4,950	95,588	89,673	93,102	—	—

# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.)

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21s), 36 INCHES, 44/40, 44/44, 40/40, 6.05 TO 6.15 YARD												
First quarter	3,177	17,489	26,118	35,624	4,136	19,750	4,645	24,541	29,380	34,012	2,299	22,478
Second quarter	5,189	27,173	30,412	25,379	1,197	14,717	5,202	28,476	28,363	22,470	2,412	16,583
Third quarter	6,403	33,552	30,016	26,938	4,733	11,639	5,512	29,008	28,104	24,159	3,316	12,640
Fourth quarter	5,097	26,810	24,405	30,582	7,138	17,816	4,713	23,676	18,830	13,970	8,162	7,780
Totals	4,981	105,004	110,951	118,523	—	—	5,018	105,701	104,677	94,641	—	—
SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21s), EXCLUDING 36 INCHES, 44/40, 44/44, 40/40, 6.05 TO 6.15 YARD												
First quarter	17,124	73,059	80,908	82,294	4,673	20,316	17,810	77,722	91,152	106,322	11,713	32,480
Second quarter	17,687	77,727	68,900	60,601	13,500	12,017	17,634	75,219	74,913	85,431	12,019	42,998
Third quarter	17,572	72,190	75,538	88,916	10,152	25,425	17,563	75,851	78,956	68,310	8,914	32,352
Fourth quarter	18,164	80,529	65,538	57,423	25,143	17,310	20,479	86,123	63,057	71,127	31,980	40,422
Totals	17,637	303,505	290,884	289,264	—	—	18,371	314,915	308,078	331,190	—	—
WIDE BROWN SHEETINGS, 45 INCHES <sup>1</sup>												
First quarter	—	—	—	—	—	—	—	1,097	1,446	1,509	679	282
Second quarter	—	—	—	—	—	—	—	1,080	944	929	815	267
Third quarter	—	—	—	—	—	—	—	745	220	233	710	280
Fourth quarter	—	—	—	—	—	—	—	7,289	7,698	6,404	2,135	207
Totals	—	—	—	—	—	—	—	—	—	—	—	—
WIDE BROWN SHEETINGS, 72 INCHES <sup>1</sup>												
First quarter	—	—	—	—	—	—	—	—	—	—	—	—
Second quarter	—	—	—	—	—	—	—	—	—	—	—	—
Third quarter	—	—	—	—	—	—	—	—	—	—	—	—
Fourth quarter	—	—	—	—	—	—	—	—	—	—	—	—
Totals	—	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup> January to July 23 collected by Association of Cotton Textile Merchants of New York; balance of year by The Cotton-Textile Institute, Inc.

# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
WIDE BROWN SHEETINGS, 81 INCHES <sup>1</sup>												
First quarter . . .	—	—	—	—	—	—	—	4,925	5,306	5,998	5,994	1,831
Second quarter . . .	—	—	—	—	—	—	—	4,871	4,654	4,947	6,211	2,121
Third quarter to July 23 . . .	—	—	—	—	—	—	—	987	1,148	1,058	6,050	2,034
July 23 to December 31 . . .	—	—	—	—	—	—	—	13,228	16,645	14,654	3,809	764
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—
WIDE BROWN SHEETINGS, 90 INCHES <sup>1</sup>												
First quarter . . .	—	—	—	—	—	—	—	7,798	10,218	10,807	5,411	2,252
Second quarter . . .	—	—	—	—	—	—	—	8,550	8,041	8,860	5,920	3,071
Third quarter to July 23 . . .	—	—	—	—	—	—	—	1,711	1,985	2,304	5,646	3,390
July 23 to December 31 . . .	—	—	—	—	—	—	—	29,526	33,216	28,357	6,064	987
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—
WIDE BROWN SHEETINGS, EXCLUDING 45 INCHES, 72 INCHES, 81 INCHES AND 90 INCHES <sup>1</sup>												
First quarter . . .	—	—	—	—	—	—	—	4,788	4,488	5,451	7,904	6,904
Second quarter . . .	—	—	—	—	—	—	—	4,803	4,390	7,989	7,498	10,494
Third quarter to July 23 . . .	—	—	—	—	—	—	—	949	1,058	974	7,389	10,410
July 23 to December 31 . . .	—	—	—	—	—	—	—	17,177	20,743	8,910	6,214	4,331
Totals . . .	—	—	—	—	—	—	—	—	—	—	—	—
BED TICKINGS, CLASS A, 32 INCHES, 2.00 YARD												
First quarter . . .	—	—	—	—	—	—	—	3,065	3,210	3,704	940	832
Second quarter . . .	—	—	—	—	—	—	—	2,594	2,390	2,985	1,144	1,427
Third quarter . . .	—	—	—	—	—	—	—	2,559	3,169	2,837	534	1,065
Fourth quarter . . .	—	—	—	—	—	—	—	3,033	2,318	2,026	1,249	803
Totals . . .	—	—	—	—	—	—	—	11,251	11,087	11,552	—	—

<sup>1</sup> January to July 23 collected by Association of Cotton Textile Merchants of New York; balance of year by The Cotton-Textile Institute, Inc.



# Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926 and 1927 — (Con.).

Compiled by Association of Cotton Textile Merchants of New York

	1926						1927					
	THOUSANDS OF YARDS						THOUSANDS OF YARDS					
	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
BED TICKINGS, EXCLUDING CLASS A, 32 INCHES, 2.00 YARD												
First quarter	—	—	—	—	—	—	—	3,483	3,153	4,254	2,452	1,555
Second quarter	—	—	—	—	—	—	—	3,347	3,602	4,372	2,197	2,325
Third quarter	—	—	—	—	—	—	—	3,278	3,921	3,494	1,554	1,898
Fourth quarter	—	—	—	—	—	—	—	3,880	3,043	2,435	2,391	1,290
Totals	—	—	—	—	—	—	—	13,988	13,719	14,555	—	—
FOUR-LEAF TWILLS												
First quarter	2,237	9,201	9,236	7,164	4,750	1,171	2,606	9,829	11,413	14,194	942	6,709
Second quarter	1,790	6,217	5,256	4,669	5,711	584	2,904	11,482	11,358	11,961	1,066	7,312
Third quarter	1,184	4,090	6,523	8,605	3,278	2,666	3,113	11,747	11,393	9,031	1,420	4,950
Fourth quarter	1,805	6,689	7,421	8,683	2,526	3,928	3,277	12,676	8,448	7,486	5,648	3,988
Totals	1,754	26,177	28,436	29,121	—	—	2,975	45,734	42,612	42,672	—	—
POCKETING TWILLS												
First quarter	1,827	4,504	4,216	3,227	4,361	490	2,002	4,678	4,851	8,643	161	5,150
Second quarter	945	2,249	3,375	3,584	3,235	699	3,131	7,055	6,744	6,585	472	4,991
Third quarter	964	2,321	4,230	5,074	1,326	1,543	3,136	7,203	5,850	3,711	1,825	2,852
Fourth quarter	1,115	2,667	3,659	3,474	334	1,358	1,976	4,638	3,526	2,013	2,937	1,339
Totals	1,213	11,831	15,480	15,359	—	—	2,561	23,574	20,971	20,952	—	—

# **Production, Shipments, Sales, Stocks and Orders of Soft Yarns — All Numbers, Single and Ply (Class A)**

[Based on 59 identical mills (prior to November 26, on 55 mills)]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1927	Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
		Pro- duction	Ship- ments	Sales	Stock on Hand	Unfilled Orders
September 24 . .	612,627	1,574	—	—	3,300	12,940
October 1 . .	634,446	1,620	1,800	1,768	3,120	12,908
October 8 . .	619,437	1,575	1,669	923	3,026	12,162
October 15 . .	624,479	1,547	1,506	1,382	3,067	12,038
October 22 . .	633,913	1,611	1,729	1,733	2,949	12,042
October 29 . .	643,949	1,631	1,617	1,507	2,963	11,932
November 5 . .	651,132	1,664	1,627	1,522	3,000	11,827
November 12 . .	664,033	1,669	1,599	2,764	3,070	12,992
November 19 . .	673,262	1,701	1,580	1,188	3,191	12,600
November 26 . .	923,384	1,885	—	—	3,387	16,452
December 3 . .	936,677	2,184	2,216	2,648	3,355	16,884
December 10 . .	914,317	2,070	1,947	2,432	3,478	17,369
December 17 . .	929,748	2,159	1,791	2,846	3,846	18,424
December 24 . .	695,703	1,381	1,163	926	4,064	18,187
December 31 . .	529,224	982	956	1,721	4,090	18,952

# **Production, Shipments, Sales, Stocks and Orders of Hard Yarns — 18's and Coarser (Class B)**

[Based on 58 identical mills (prior to November 26, on 52 mills)]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1927	Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
		Pro- duction	Ship- ments	Sales	Stock on Hand	Unfilled Orders
September 24 . .	358,366	1,254	—	—	3,590	7,834
October 1 . .	348,177	1,228	1,343	1,321	3,475	7,812
October 8 . .	351,572	1,257	1,234	844	3,498	7,422
October 15 . .	354,545	1,228	1,163	1,047	3,563	7,306
October 22 . .	359,387	1,252	1,270	1,579	3,545	7,615
October 29 . .	359,295	1,259	1,174	1,709	3,630	8,150
November 5 . .	354,660	1,236	1,349	1,314	3,517	8,115
November 12 . .	342,607	1,266	1,273	1,430	3,510	8,272
November 19 . .	349,908	1,256	1,251	1,133	3,515	8,154
November 26 . .	443,915	1,400	—	—	4,197	10,981
December 3 . .	438,602	1,526	1,556	1,450	4,167	10,875
December 10 . .	424,685	1,516	1,560	2,230	4,123	11,545
December 17 . .	418,966	1,602	1,504	1,708	4,221	11,749
December 24 . .	411,682	1,377	1,448	1,703	4,150	12,004
December 31 . .	290,774	802	742	883	4,210	12,145

# **Production, Shipments, Sales, Stocks and Orders of Hard Yarns — 20's and Finer (Class C)**

[Based on 70 identical mills (prior to November 26, on 64 mills)]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1927	Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
		Pro- duction	Ship- ments	Sales	Stock on Hand	Unfilled Orders
September 24 . . .	913,662	1,341	—	—	3,070	6,903
October 1 . . .	904,714	1,362	1,238	1,062	3,194	6,727
October 8 . . .	879,893	1,340	1,310	1,703	3,224	7,120
October 15 . . .	874,629	1,284	1,141	1,050	3,367	7,029
October 22 . . .	891,390	1,317	1,318	1,357	3,366	7,068
October 29 . . .	890,789	1,318	1,112	1,182	3,572	7,138
November 5 . . .	896,464	1,338	1,412	1,309	3,498	7,035
November 12 . . .	887,768	1,319	1,186	1,093	3,631	6,942
November 19 . . .	882,367	1,226	1,130	1,008	3,727	6,820
November 26 . . .	917,109	1,202	—	—	3,996	7,259
December 3 . . .	956,573	1,364	1,221	961	4,139	6,999
December 10 . . .	985,993	1,327	1,045	776	4,421	6,730
December 17 . . .	896,495	1,329	1,206	2,426	4,544	7,950
December 24 . . .	837,457	1,048	890	1,705	4,702	8,765
December 31 . . .	417,680	493	615	868	4,580	9,018

# United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed. The table on imports expressed in terms of value includes all the imports of manufactures of cotton.

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Cotton thread and yarn:										
Thread and yarns, warps or warp yarn, on beams, in skeins, etc. (pounds)	3,936,481	3,861,968	10,629,645	3,140,102	5,426,987	5,269,351	3,733,422	3,618,657	3,661,164	3,304,737
Sewing thread, crocheted, darned and knitting cotton (100 yards)	-	41,938,565	83,331,972	45,966,524	51,803,837	42,326,041	38,963,528	29,992,175	21,889,760	21,376,539
Cloths:										
Unbleached (square yards)	6,587,869	19,732,441	50,408,634	16,365,557	23,028,859	95,186,119	111,729,968	75,397,414	33,114,973	27,450,922
Bleached (square yards)	5,938,830	9,434,881	23,923,795	22,582,543	17,863,670	14,888,305	5,763,554	4,831,677	5,236,245	10,146,429
Colored, dyed, printed and woven-figured square yards	-	-	-	-	-	108,895,883	55,952,132	29,020,042	22,328,939	25,404,596
Dyed in the piece (square yards)	11,866,779	11,577,432	38,746,021	39,927,187	41,894,470	-	-	-	-	-
Printed (square yards)	2,606,832	3,725,381	13,611,021	8,927,300	11,261,896	-	-	-	-	-
All other (square yards)	5,839,319	5,283,316	14,098,894	18,528,011	15,599,198	-	-	-	-	-
Total cloths (square yards)	32,839,569	49,753,451	140,788,365	106,330,598	109,648,093	218,970,307	177,385,654	109,249,133	60,680,157	63,001,947
Laces, embroideries, etc., and articles made thereof (except wearing apparel):										
Embroideries including edgings, insertings, and galloons (yards)	-	7,586,001	24,889,980	29,885,458	24,012,100	-	-	-	-	-
Lace window curtains (square yards)	-	362,318	1,426,213	901,631	1,729,452	1,953,433	1,363,581	1,290,069	1,463,781	2,338,179
Pile fabrics and Terry-woven fabrics (square yards)	357,693	433,345	1,038,664	307,582	121,785	364,516	431,451	555,201	-	-
Tapestries and Jacquard figured upholstery goods (square yards)	-	1,241,506	9,280,503	2,846,356	1,675,494	734,838	1,224,372	1,943,460	-	-
Waste or hocks (pounds)	1,267,336	2,124,663	9,090,767	4,861,682	28,399,261	77,022,332	33,694,041	36,393,055	29,735,862	24,729,741
Wearing apparel:										
Knit goods:										
Gloves (dozen pairs)	-	181,239	386,414	1,114,080	1,774,978	1,158,420	1,364,980	1,659,131	2,111,429	2,189,618
Hosiery (dozen pairs)	116,310	65,955	228,285	756,028	1,357,602	611,718	580,938	563,246	497,258	527,969
All other knit goods (dozens)	-	52,860	21,951	31,522	10,528	111,337	105,823	85,998	83,698	163,263

<sup>1</sup> January 1 to September 21, after which new tariff law is in effect.

<sup>2</sup> Estimated.

<sup>3</sup> Not separately classified under new tariff law.

Note. — Where no figures are given for the earlier years (as for sewing thread, crocheted, darned and knitting cotton prior to 1919) the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no imports of such items if no figures were given for these items separately.

<sup>4</sup> Pounds only reported after September 21, 1922.

<sup>5</sup> Quantity not available.

## United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Cotton thread and yarn:										
Thread and carded yarns, warps, or warp yarns, on beams, in skeins, etc.	\$6,338,487	\$7,031,356	\$25,418,196	\$3,752,332	\$6,038,543	\$5,666,886	\$4,488,991	\$5,316,498	\$1,315,168	\$3,774,604
Sewing thread, crochet, darning and knitting cotton	-	1,932,538	3,545,891	1,980,146	2,753,007	3,188,622	3,056,900	3,469,008	2,387,969	1,961,519
Cloths:										
Unbleached	\$2,223,962	\$2,042,862	\$13,748,108	\$2,916,817	\$7,933,985	\$18,289,138	\$21,889,138	\$15,422,983	\$6,888,585	\$5,153,708
Bleached	1,860,397	3,318,675	9,168,582	5,830,112	6,068,135	3,696,394	1,557,653	1,581,316	1,532,585	2,151,285
Colored, dyed, printed, and woven-figured	-	-	-	-	25,071,330	25,204,253	14,256,655	9,416,837	7,886,551	8,286,041
Dyed in the piece	4,575,846	5,259,942	16,787,812	11,552,492	-	-	-	-	-	-
Printed	946,538	1,656,763	6,060,191	3,241,521	-	-	-	-	-	-
All other	2,041,288	2,026,661	5,989,034	5,885,307	-	-	-	-	-	-
Total cloths	\$11,648,031	\$17,664,903	\$51,753,747	\$29,426,249	\$39,073,450	\$47,188,033	\$37,703,416	\$26,424,126	\$16,257,721	\$15,594,037
Lace window curtains	\$142,911	\$104,520	\$1,097,903	\$567,474	\$767,786	\$722,878	\$517,896	\$173,014	\$500,486	\$607,561
Laces and lace articles, including lace edgings, insertings, and galloons:										
Hand-made	395,240	925,608	1,091,173	589,919	2,325,623	2,168,354	2,083,357	1,685,550	982,607	1,265,881
All other	4,948,662	7,702,488	12,003,224	8,378,147	5,686,109	9,250,392	11,951,927	7,612,553	5,074,568	4,924,560
Nets and nettings	1,914,449	2,469,628	1,946,091	1,815,438	1,405,691	1,133,555	1,038,264	1,109,007	1,017,473	1,463,196
Veils and veilings	8,803	23,851	69,681	37,385	-	-	-	-	-	-
Total laces, etc.	\$8,872,428	\$13,909,116	\$24,300,149	\$16,703,583	\$14,451,585	\$17,013,228	\$30,105,883	\$14,602,604	\$12,086,328	\$12,473,957
Pile fabrics and Terry-woven fabrics	\$354,356	\$593,147	\$1,115,295	\$256,295	\$245,887	\$899,837	\$933,782	\$1,177,679	\$2,383,810	\$2,796,061
Tapestries and Jacquard-figured upholstery goods	-	426,550	3,355,811	1,781,969	1,145,595	1,196,207	1,947,198	3,264,576	4,315,233	5,467,679
Waste or flocks	94,123	216,878	862,542	309,905	2,674,371	6,727,755	3,244,346	3,726,692	2,117,002	1,027,772
Wearing apparel:										
Product of the Philippine Islands	-	2,796,634	7,349,452	5,154,258	2,353,312	393,735	3,702,741	3,958,870	5,421,516	3,521,176
Knit goods	1,291,462	812,206	2,440,186	4,819,238	7,574,665	5,731,283	5,947,218	7,721,153	8,416,667	8,767,734
Gloves	-	305,854	1,345,687	3,271,300	5,360,454	4,034,143	4,246,798	5,488,064	6,513,666	6,543,620
Hosiery	134,663	135,574	908,829	1,358,434	2,141,124	1,326,247	1,403,318	1,942,240	1,612,447	1,793,428
All other knit goods	1,156,799	370,778	186,020	189,504	73,087	370,623	291,102	293,813	290,554	430,686
Total manufactures of cotton	\$39,808,295	\$52,649,218	\$137,431,814	\$75,428,323	\$87,069,809	\$100,154,179	\$90,913,637	\$79,271,008	\$67,159,329	\$66,195,850

1 Not separately classified under new tariff law effective September 22, 1922.

2 "Includes veils and veilings."

3 Not separately classified under new tariff law; included with "nets and nettings."

# United States Imports of Cotton Manufactures, by Countries

[Statistics are for years ending June 30 from 1917 to 1919, inclusive, and for calendar years thereafter]

Source: United States Department of Commerce

COUNTRIES	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Europe:										
United Kingdom	\$39,542,259	\$30,303,244	\$23,192,647	\$82,128,618	\$27,917,368	\$39,003,963	\$51,222,189	\$42,447,766	\$34,177,328	\$22,038,371
Germany	53,500	-	- <sup>1</sup>	4,847,137	7,417,485	12,352,330	17,087,150	12,302,445	13,831,711	14,213,079
France	5,836,723	3,358,727	3,555,197	10,572,118	9,441,632	11,267,774	13,713,905	16,402,486	12,361,148	10,296,808
Switzerland	4,286,848	2,365,277	1,326,133	17,261,975	15,177,834	11,188,442	5,968,020	4,414,537	3,188,582	3,246,417
Belgium	9,695	1,431	621	861,740	424,198	692,459	1,045,021	1,280,353	1,187,923	1,263,087
Austria	-	-	- <sup>1</sup>	-	-	89,856	145,247	166,058	272,977	339,379
Italy	1,526,695	588,030	266,191	1,441,069	800,992	613,800	1,236,087	1,578,784	1,543,877	1,920,206
Spain	90,595	68,017	23,754	60,055	67,940	55,748	102,192	51,052	18,026	27,451
Czechoslovakia	- <sup>2</sup>	- <sup>2</sup>	- <sup>2</sup>	387,953	329,938	697,288	967,748	985,103	1,478,106	2,368,344
Turkey (including Asiatic Turkey)	-	-	- <sup>1</sup>	104,803	55,328	22,418	53,775	18,682	16,005	18,093
All other Europe	286,394	186,733	304,245	2,220,696	958,069	1,030,848	925,430	832,894	533,781	633,592
America:										
Canada	184,367	2,679,683	2,078,544	248,108	344,590	211,722	263,439	135,949	252,481	188,397
Mexico	90,814	15,250	11,035	451,352	78,365	22,146	100,897	46,430	138,186	69,143
All other America	7,796	46,063	3,037	12,131	8,854	20,088	30,469	48,016	30,093	76,240
Japan	3,844,581	4,280,957	1,363,512	7,062,960	3,731,293	4,157,448	3,804,760	3,123,072	3,222,713	2,726,086
China	340,694	769,279	456,128	2,118,254	3,038,915	2,846,280	2,548,556	2,464,848	2,123,500	1,580,349
British India	23,578	18,192	5,548	32,101	71,627	188,208	212,696	207,445	451,219	295,889
All other countries	37,145	70,298	2,176,131	7,769,274	5,567,067	2,608,991	635,598	4,477,455	4,440,349	5,857,798
Total	\$56,181,684	\$44,751,181	\$34,762,723	\$137,583,347	\$75,430,495	\$87,069,809	\$100,153,179	\$90,913,641	\$79,271,008	\$67,159,329

<sup>1</sup> Included in "All other Europe."

<sup>2</sup> Included in Austria.

United States Imports of Specified Cloths<sup>1</sup>

MONTH	Lawns, Organdies, Nainsooks, Cambrics, etc. (Square Yards)	Broadcloths and Poplins (Square Yards)	Sateens woven with not more than 7 Harnesses (Square Yards)	Sateens woven with 8 or more Harnesses (Square Yards)	Voiles (Square Yards)	Crepes (Square Yards)	Ginghams (Square Yards)	Ratines (Square Yards)	Jacquard Woven Cloths Other than Swivels or Lappets (Square Yds.)	Dotted Swisses (Square Yards)	Total
<b>1927</b>											
January	1,470,509	1,553,797	95,081	107,126	191,638	152,568	58,690	442	68,166	18,988	3,717,005
February	1,404,871	1,099,567	418,633	196,009	207,488	150,431	62,233	4,332	125,862	21,716	3,691,142
March	2,091,109	1,232,788	775,335	183,586	222,508	121,686	64,848	1,399	94,288	72,825	4,860,372
April	1,909,130	1,455,462	523,081	210,992	322,675	88,193	15,232	—	83,896	59,682	4,668,343
May	2,610,924	1,800,802	615,164	801,448	283,045	70,564	14,550	—	120,683	75,129	6,400,309
June	1,630,951	929,114	734,703	236,511	606,781	64,234	33,738	8,509	177,425	32,553	4,454,519
July	1,081,154	937,732	408,309	214,499	427,739	57,082	8,664	—	84,809	14,203	2,849,391
August	2,596,099	1,400,427	406,819	200,549	96,618	18,088	13,816	6,701	220,023	8,299	4,967,439
September	1,550,807	1,223,319	446,527	293,633	84,776	73,780	25,853	1,412	142,577	25,156	3,867,840
October	1,710,693	1,301,528	451,989	277,309	104,128	42,943	49,390	1,665	90,530	10,683	4,040,858
November	2,063,638	1,302,724	505,995	282,221	115,155	42,458	60,233	201	213,982	8,461	4,595,068
December	2,836,261	1,340,276	211,828	300,761	253,276	73,906	61,414	—	156,142	21,030	5,254,894
Total	23,319,255	15,870,677	5,591,774	2,784,506	2,496,072	961,933	469,638	24,661	1,575,907	368,725	53,463,148
<b>1926</b>											
January	1,575,701	2,885,036	342,175	161,822	661,120	89,335	65,756	10,864	44,637	16,484	5,852,930
February	905,734	2,979,454	261,582	62,670	425,196	168,443	28,409	12,844	34,098	8,101	4,886,831
March	2,124,633	4,199,046	502,723	146,280	769,159	311,747	32,135	67,277	80,543	19,041	8,247,884
April	1,630,386	2,858,579	656,155	169,498	553,869	224,666	36,229	36,229	114,294	79,238	6,349,369
May	1,968,375	1,382,433	613,685	212,336	280,121	107,997	27,173	7,127	90,698	24,004	3,690,599
June	773,446	1,515,027	532,368	249,449	128,067	142,249	25,745	7,174	155,681	20,480	3,549,586
July	1,164,686	1,326,280	311,402	261,479	124,336	102,642	16,374	9,978	69,209	9,484	2,945,870
August	1,706,434	1,283,995	129,511	200,812	6,003	38,920	12,139	2,620	133,077	13,967	2,340,119
September	760,196	953,865	366,694	74,859	10,071	8,627	15,477	1,156	109,939	33	2,300,367
October	1,670,634	1,973,363	199,483	290,266	131,740	40,799	25,151	8,514	125,108	540	3,781,998
November	1,141,918	1,652,156	240,721	138,670	143,680	82,337	8,597	—	138,187	7,256	3,553,322
December	1,008,955	1,406,696	221,110	452,773	80,542	94,877	38,029	84,066	100,182	10,089	3,497,319
Total	13,374,518	24,415,980	4,392,504	2,331,914	3,313,804	1,412,833	328,671	240,749	1,195,673	190,317	51,196,963

<sup>1</sup> These statistics do not include all types of cloths imported, and are collected at only the more important ports of the United States. The figures, however, amount to practically 90 per cent of the cloth imports for the period covered.



# Total United States Imports for Consumption of Countable Cotton Cloths during the Years 1925, 1926 and 1927

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	1925			1926			1927		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1-10 . . . . .	1,375,988	514,220	466,889	1,757,883	711,862	582,566	1,764,544	745,782	534,952
11-20 . . . . .	4,079,505	1,200,270	1,625,840	3,514,785	1,054,164	1,512,154	3,702,347	1,135,439	1,543,380
21-30 . . . . .	16,256,004	4,012,766	3,263,619	8,631,359	2,103,801	1,836,299	6,758,285	1,725,398	1,519,299
31-40 . . . . .	27,461,904	5,825,817	5,213,614	5,896,345	1,334,791	1,360,534	4,076,839	938,868	1,074,636
41-50 . . . . .	18,241,807	3,850,499	4,307,112	7,053,722	1,622,696	1,878,173	4,599,774	1,034,377	1,262,523
51-60 . . . . .	11,188,925	2,275,264	2,997,364	6,632,429	1,464,590	1,894,809	5,969,024	1,313,269	1,614,316
61-70 . . . . .	2,407,614	423,765	744,945	3,422,786	611,449	991,323	5,759,996	961,264	1,313,128
71-80 . . . . .	9,127,797	1,445,965	2,570,271	9,051,119	1,449,266	2,463,578	11,123,505	1,544,925	2,682,602
81-90 . . . . .	7,874,451	1,343,403	2,459,567	5,587,663	1,006,772	1,682,507	7,885,496	1,219,398	1,884,851
91-100 . . . . .	11,117,679	1,301,242	2,510,996	8,308,518	1,007,809	1,777,965	8,184,802	861,925	1,591,830
101-110 . . . . .	522,120	54,736	127,877	561,925	63,986	148,668	2,425,734	239,753	502,777
111-120 . . . . .	190,279	23,167	52,702	114,633	11,675	28,443	379,083	32,613	78,854
121-130 . . . . .	527,797	51,216	128,896	383,838	36,819	88,063	443,573	38,994	102,821
131-140 . . . . .	60,751	8,805	14,834	49,610	3,752	9,028	446,231	30,173	73,967
141-150 . . . . .	12,189	1,345	3,721	15,143	1,504	5,107	17,925	1,693	5,426
151-160 . . . . .	9,605	1,047	5,336	5,971	330	1,382	11,053	775	2,571
161-170 . . . . .	1,039	69	715	11,585	1,263	2,710	6,356	530	2,263
171-180 . . . . .	5,010	394	2,350	809	145	416	3,929	284	833
181-190 . . . . .	1,639	116	498	—	—	—	1,305	70	274
191-200 . . . . .	404	295	1,026	700	140	310	3,153	219	967
Above 200 . . . . .	2,447	614	1,579	—	—	—	26	15	20
Total . . . . .	110,464,954	22,335,015	26,499,751	61,000,823	12,486,814	16,264,035	63,562,980	11,825,764	15,792,290



# United States Imports for Consumption of Countable Cotton Cloths during the Years 1926 and 1927 — (Continued)

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	PRINTED, DYED, COLORED OR WOVEN-FIGURED INCLUDING VAT-DYED						WOVEN WITH EIGHT OR MORE HARNESSES, OR WITH JACQUARD, LAPPETS, OR SWIVEL ATTACHMENTS					
	1926			1927			1926			1927		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1 to 10 . . . . .	1,549,748	598,278	482,948	1,559,203	647,827	465,974	109,423	45,762	33,913	140,337	58,080	38,933
11 to 20 . . . . .	3,081,044	904,118	1,343,421	3,272,443	978,846	1,373,767	41,199	14,024	16,065	57,521	19,960	23,780
21 to 30 . . . . .	5,708,097	1,378,579	1,312,427	4,835,541	1,223,239	1,136,664	396,217	112,720	95,592	343,857	110,005	88,710
31 to 40 . . . . .	1,763,007	394,868	499,747	1,528,997	368,577	487,915	626,571	152,085	219,819	999,615	235,790	295,162
41 to 50 . . . . .	1,440,936	308,151	519,308	1,003,377	204,250	358,547	1,275,625	378,233	503,101	1,566,193	395,437	540,153
51 to 60 . . . . .	668,407	142,552	232,484	632,339	135,917	222,382	2,574,038	721,087	1,070,324	2,593,569	696,404	988,178
61 to 70 . . . . .	466,064	79,901	189,453	390,709	74,699	155,795	488,480	92,733	242,078	798,625	130,439	352,508
71 to 80 . . . . .	785,903	133,404	285,422	1,734,868	201,628	450,462	580,880	100,948	257,563	1,002,719	182,977	411,943
81 to 90 . . . . .	238,259	38,714	95,908	334,779	50,248	112,941	544,149	70,748	201,641	707,168	100,965	266,110
91 to 100 . . . . .	236,823	26,987	72,418	1,188,471	101,866	257,020	119,327	24,229	64,413	154,845	27,556	76,343
101 to 110 . . . . .	240,742	29,109	66,118	911,007	78,089	181,847	20,778	2,024	7,567	10,257	1,564	2,234
111 to 120 . . . . .	26,508	4,724	10,406	57,056	5,127	13,743	673	60	259	4,107	560	548
121 to 130 . . . . .	18,651	1,813	6,210	57,207	5,871	21,167	1,716	168	676	5,989	848	3,455
131 to 140 . . . . .	2,289	235	555	4,481	422	1,890	737	132	398	238	27	119
141 to 150 . . . . .	437	169	417	1,070	151	556	—	—	—	—	—	—
151 to 160 . . . . .	86	7	20	—	—	—	—	—	—	—	—	—
161 to 170 . . . . .	9,535	1,100	1,954	—	—	—	—	—	—	—	—	—
171 to 180 . . . . .	160	22	36	1,924	128	367	—	—	—	—	—	—
181 to 190 . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
191 to 200 . . . . .	700	140	310	—	—	—	—	—	—	—	—	—
Above 200 . . . . .	—	—	—	26	15	20	—	—	—	—	—	—
Total . . . . .	16,297,396	4,042,871	5,119,592	17,513,558	4,076,900	5,241,057	6,779,813	1,715,553	2,713,409	8,385,040	1,960,552	3,092,842

# United States Imports for Consumption of Countable Cotton Cloths during the Years 1926 and 1927 — (Concluded)

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	WOVEN WITH DROP BOXES					
	1926			1927		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1 to 10 . . . . .	9,199	3,773	3,420	16,817	7,534	5,240
11 to 20 . . . . .	46,970	17,983	22,333	36,589	13,756	20,368
21 to 30 . . . . .	248,266	58,496	48,340	116,734	23,444	28,390
31 to 40 . . . . .	80,983	20,326	38,829	48,694	12,977	25,514
41 to 50 . . . . .	29,536	6,124	15,155	24,231	4,730	9,152
51 to 60 . . . . .	16,937	4,153	11,768	8,684	2,247	5,293
61 to 70 . . . . .	24,730	6,332	10,285	12,132	2,664	5,684
71 to 80 . . . . .	89,217	18,025	43,186	98,045	17,359	42,118
81 to 90 . . . . .	26,007	4,135	13,608	13,105	2,030	6,284
91 to 100 . . . . .	16,285	3,109	8,187	16,186	2,412	6,843
101 to 110 . . . . .	6,857	838	3,185	4,951	481	1,590
111 to 120 . . . . .	1,109	238	756	2,205	202	915
121 to 130 . . . . .	521	90	330	909	99	609
131 to 140 . . . . .	—	—	—	—	—	—
141 to 150 . . . . .	—	—	—	—	—	—
151 to 160 . . . . .	—	—	—	—	—	—
161 to 170 . . . . .	—	—	—	—	—	—
171 to 180 . . . . .	—	—	—	900	110	305
181 to 190 . . . . .	—	—	—	—	—	—
191 to 200 . . . . .	—	—	—	—	—	—
Above 200 . . . . .	—	—	—	—	—	—
Total . . . . .	596,607	143,622	219,382	400,182	90,045	158,305

# United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed.

	1918	1919	1920	1921	1922 <sup>1</sup>	1923 <sup>1</sup>	1924 <sup>1</sup>	1925 <sup>1</sup>	1926 <sup>1</sup>	1927 <sup>1</sup>
<b>Cloths (running yards):</b>										
Duck:										
Unbleached . . . . .	5,097,520	9,128,503	13,183,255	5,890,284	8,277,695	6,880,282	7,180,584	9,023,964	9,166,085	11,927,295
Bleached . . . . .	2,254,458	4,263,404	4,841,160	932,532	1,852,514	1,059,393	1,085,747	1,717,588	1,252,679	1,926,711
Colored . . . . .	731,388	1,301,202	1,570,475	604,676	809,476	990,142	863,564	816,064	883,100	1,307,430
<b>All other cloths:</b>										
Unbleached . . . . .	73,436,891	142,885,203	138,343,202	218,567,315	177,172,182	103,286,881	110,921,404	129,581,133	119,607,693	122,397,921
Bleached . . . . .	99,227,003	126,349,050	184,368,835	83,676,191	99,681,739	77,635,357	82,458,805	92,937,823	98,358,648	87,258,820
Colored . . . . .	—	—	—	—	—	—	—	—	—	—
Printed . . . . .	139,768,162	137,665,935	159,132,993	90,337,326	113,319,445	105,202,243	97,262,828	111,197,504	99,149,736	117,334,185
Dyed in the piece . . . . .	133,174,426	156,051,800	178,489,420	83,913,351	101,467,669	99,577,461	93,955,175	107,344,997	100,437,189	120,343,854
Dyed in the yarn . . . . .	90,484,726	705,394,039	138,821,514	67,501,267	84,911,809	72,662,000	84,087,301	90,697,978	82,441,583	94,283,169
Tire fabrics . . . . .	—	—	—	—	—	—	—	—	2,003,078	4,978,051
Total cloths . . . . .	544,174,574	683,045,326	818,750,934	551,512,942	587,492,532	464,293,759	477,815,408	543,316,851	513,299,781	561,657,436
<b>Mill waste (pounds)</b>										
Rags (except paper stock) (pounds)	46,868,332	57,317,920	57,877,150	39,002,394	58,572,181	55,086,552	65,616,568	77,048,181	66,788,365	96,502,548
Hosiery (dozen pairs)	5,024,629	6,182,533	6,817,037	6,080,307	8,089,668	15,252,057	18,705,515	19,068,117	12,589,917	15,431,476
Yarn (pounds)	5,574,343	9,477,338	11,575,655	2,508,258	4,792,604	5,159,750	4,825,563	5,534,222	4,744,584	4,337,435
	13,355,800	20,699,124	24,099,399	14,294,176	15,503,800	12,081,384	13,673,509	21,891,810	24,036,636	28,090,555

<sup>1</sup> Cloth exports are in square yards.

NOTE.—Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

# United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Blankets	\$2,498,163	\$3,551,511	\$5,196,387	\$990,808	\$960,214	\$970,258	\$728,941	\$817,685	\$859,752	\$925,766
Cloths:										
Duck:										
Unbleached	\$3,430,806	\$7,469,640	\$10,753,578	\$2,818,206	\$3,508,982	\$3,216,638	\$3,353,931	\$1,149,830	\$3,412,879	\$3,755,330
Bleached	1,234,330	3,037,108	2,892,720	399,373	613,239	475,947	494,486	616,670	452,768	610,132
Colored	312,967	718,083	882,682	262,836	238,532	372,185	325,816	298,066	317,993	373,582
All other cloths:										
Unbleached	\$11,330,027	\$23,591,461	\$32,029,596	\$19,669,270	\$19,296,926	\$13,731,328	\$13,943,631	\$15,095,935	\$12,451,570	\$11,110,610
Bleached	19,090,986	26,213,748	50,841,463	11,702,965	13,871,473	12,287,691	12,075,860	13,352,271	12,370,611	9,983,531
Colored										
Printed	21,628,277	23,205,902	38,584,777	10,575,003	14,802,468	15,196,072	13,995,526	14,921,031	14,046,107	15,709,876
Dyed in the piece	30,073,042	40,663,963	58,854,461	15,363,740	18,111,287	19,673,792	18,063,158	20,320,460	17,614,723	19,281,783
Dyed in the yarn	19,915,898	27,096,972	43,224,280	10,640,069	14,789,265	14,353,149	16,063,439	16,257,486	13,039,538	13,825,272
Tire fabric	-	-	-	-	-	-	-	-	819,762	1,799,652
Total cloths	\$107,519,333	\$151,997,817	\$238,153,557	\$71,573,875	\$85,232,112	\$79,357,337	\$78,204,877	\$85,011,749	\$71,588,981	\$76,509,708
Laces and embroideries	\$1,560,322	\$1,731,675	\$1,029,409	\$611,506	\$359,634	\$319,454	\$205,088	\$310,142	\$257,862	\$216,155
Mill waste	9,488,664	12,411,704	12,368,596	3,678,527	6,067,303	7,609,698	7,616,188	8,720,584	6,077,523	8,617,072
Rags (except paper stock)	342,419	515,754	641,557	296,420	462,757	987,231	1,492,711	1,595,516	830,116	1,022,558
Thread, sewing, crocheting, etc.	2,824,776	4,367,762	4,471,617	2,055,328	2,034,732	2,065,520	1,772,668	1,583,357	1,439,862	1,285,558
Wearing apparel:										
Collars and cuffs	329,227	771,219	\$16,142	341,789	348,046	463,415	770,823	683,393	570,207	524,524
Corsets	1,923,078	2,880,858	3,583,767	1,695,555	1,924,036	1,745,581	1,902,745	-	-	-
Knit goods	-	-	-	-	-	-	-	-	-	-
Hosiery	13,258,474	26,882,566	37,879,665	6,232,198	9,221,834	10,525,183	9,095,505	10,494,361	8,407,326	7,329,505
Underwear	2,897,486	8,602,293	14,067,839	3,602,493	6,185,980	5,025,008	3,740,963	3,827,662	3,214,167	2,536,489
All other knit goods	945,833	1,508,995	2,510,558	427,773	646,583	530,158	611,221	677,121	765,285	624,112
Yarn	8,846,694	14,448,630	20,014,949	5,679,075	6,815,664	6,632,672	7,423,967	11,896,201	12,131,925	12,222,824
Total manufactures of cotton	\$181,029,486	\$273,115,704	\$402,041,277	\$117,234,542	\$138,701,617	\$138,045,354	\$132,710,741	\$148,239,365	\$128,877,008	\$133,059,299

NOTE.—Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

Conversely figures for certain classes of goods (as for all other cloths, colored) are discontinued when this classification is broken up into several sub-classifications, all other cloths, colored, being subdivided into printed, dyed in the piece, and dyed in the yarn.

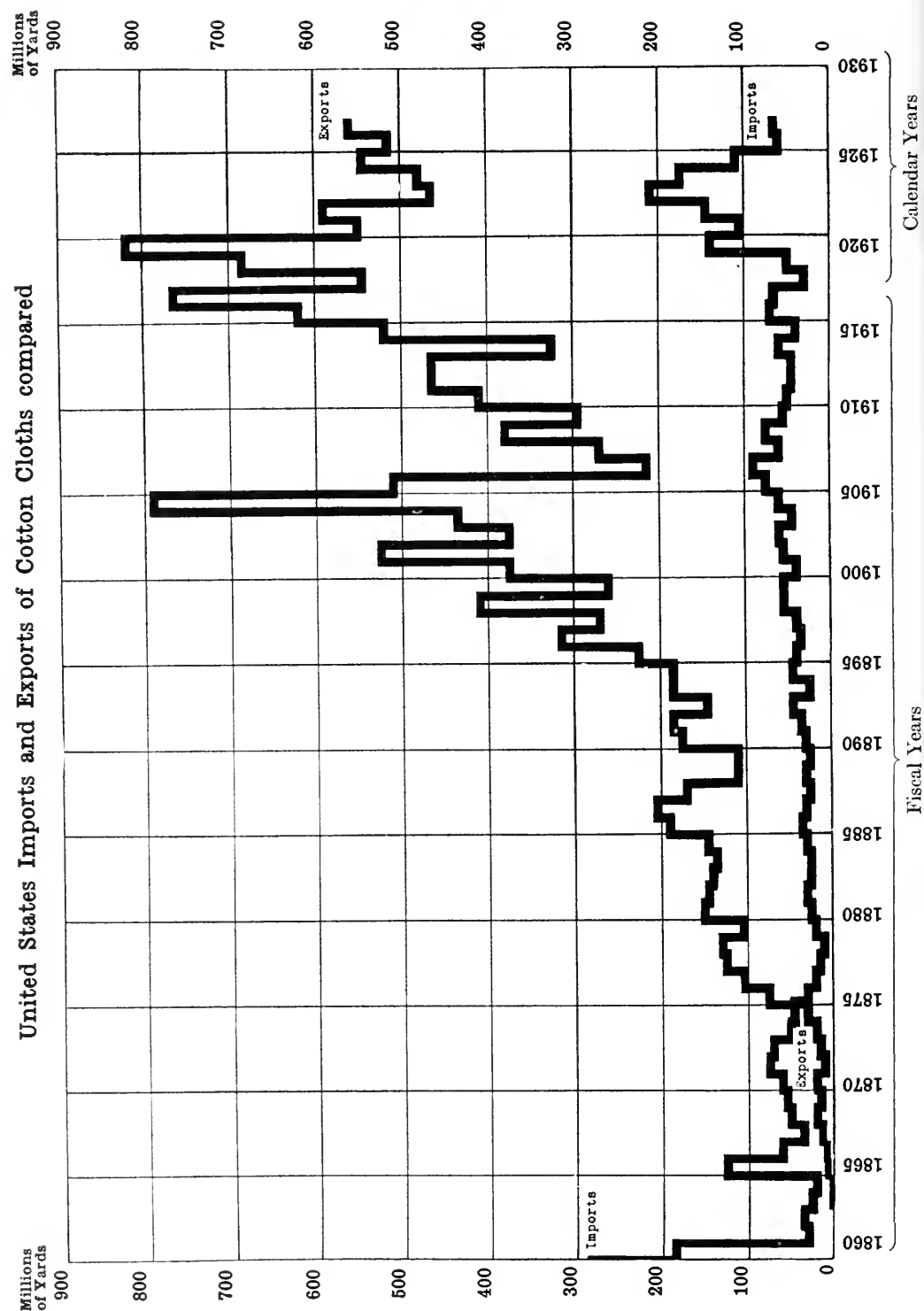
## United States Exports of Cotton Manufactures, by Countries

[Statistics are for years ending June 30 from 1917 to 1919, inclusive, and for calendar years thereafter]

Source: United States Department of Commerce

COUNTRIES	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Europe:										
United Kingdom	\$10,775,950	\$10,070,789	\$12,796,495	\$25,900,099	\$5,884,979	\$11,351,039	\$9,232,304	\$8,138,680	\$10,077,802	\$1,632,046
Germany	-	-	-	1,964,236	1,522,910	1,149,584	1,158,523	1,827,423	2,353,718	216,843
All other Europe	9,507,287	9,489,084	38,907,913	34,491,875	11,533,970	7,004,752	4,932,250	3,570,284	5,554,374	3,525,685
America:										
Canada	28,264,480	27,984,121	30,555,383	40,526,138	18,207,778	20,540,062	19,504,728	16,384,203	17,575,268	14,184,909
Mexico	11,011,886	18,606,003	11,037,043	12,452,319	13,703,906	6,795,751	6,701,495	7,272,995	7,937,064	6,030,076
Central America	8,004,905	4,877,986	10,123,223	19,664,743	8,800,540	9,812,808	9,882,329	11,530,092	11,538,823	9,174,796
British West Indies (including Bermuda)	2,468,030	3,505,299	3,524,740	7,052,030	3,237,430	3,383,004	2,774,123	2,291,097	3,463,808	2,700,885
Cuba	10,630,627	17,728,667	16,819,419	73,364,132	6,744,018	11,464,303	22,880,293	20,881,923	16,020,118	14,887,479
Haiti	2,496,083	2,696,510	4,533,777	5,779,045	2,412,481	3,358,270	4,031,255	3,934,637	4,910,020	2,371,706
All other North America	3,231,716	5,668,253	3,279,006	14,828,626	2,116,574	3,124,172	4,087,780	4,941,952	5,608,113	3,960,127
Brazil	1,588,549	3,597,927	5,859,310	5,089,804	567,705	1,015,537	977,277	1,964,948	2,551,920	1,089,935
Chile	4,489,399	7,333,773	10,380,453	7,288,468	2,786,929	4,775,339	5,337,587	4,473,085	4,530,039	3,807,543
Colombia	3,793,316	2,355,123	3,351,124	25,308,682	2,190,974	5,705,011	4,734,691	5,906,086	8,004,596	5,902,227
Peru	2,584,311	2,738,782	2,178,630	6,128,972	1,009,481	1,927,994	2,127,413	1,807,225	1,305,769	1,630,399
Venezuela	2,278,406	1,012,670	1,482,650	10,303,687	514,331	892,633	1,463,383	2,311,810	2,370,544	1,814,872
All other South America	13,547,226	21,761,643	31,956,963	41,667,394	12,046,946	17,557,471	14,093,034	14,215,190	17,429,241	7,986,918
Asia and Oceania:										
China	681,044	1,217,295	2,951,883	9,201,386	2,576,539	2,248,349	539,607	526,805	1,408,286	530,209
British India	894,480	1,034,580	933,505	4,828,097	2,999,733	834,321	829,955	1,177,331	1,850,773	1,966,064
British Australasia	5,812,428	5,651,326	12,601,593	14,361,911	3,590,701	5,114,867	3,983,927	2,600,655	4,036,509	3,881,470
Aden	1,134,218	1,173,986	296,821	1,141,240	1,334,537	1,433,096	742,835	254,277	417,164	380,158
Philippine Islands	9,340,976	17,262,881	17,179,046	23,526,230	8,022,385	14,263,146	13,250,098	11,557,251	13,243,865	15,279,067
All other Asia and Oceania	1,625,716	1,747,806	4,832,686	12,068,056	2,668,763	1,728,391	1,878,240	1,214,900	1,542,624	1,241,534
Africa	2,134,815	2,899,709	3,691,894	5,114,107	1,740,882	3,093,427	2,995,627	3,747,592	4,517,825	4,682,599
Total	\$136,299,842	\$169,378,223	\$232,206,566	\$402,041,277	\$117,234,542	\$138,701,617	\$138,045,351	\$182,710,741	\$148,230,365	\$111,997,547

† Included in "All other Europe."





# United States Imports and Exports of Cotton Cloth during Calendar Years

Source: United States Department of Commerce

YEAR	Exports (Linear Yards)	Imports (Square Yards)
1900	257,910,508	53,264,507
1901	376,233,960	41,891,885
1902	525,495,309	56,199,911
1903	374,074,192	59,250,082
1904	434,989,686	44,755,238
1905	790,259,024	61,381,256
1906	512,229,720	78,321,752
1907	216,387,642	91,613,881
1908	272,242,179	60,099,151
1909	380,521,971	73,803,398
1910	295,736,336	55,276,921
1911	410,200,201	52,031,130
1912	464,253,126	45,497,927
1913	466,677,252	46,563,568
1914	326,477,889	62,272,013
1915	518,338,302	42,759,670
1916	620,255,896	66,406,638
1917	764,621,892	65,296,802
1918	544,174,574	32,839,569
1919	683,045,326	49,753,481
1920	818,750,954	141,330,861
1921	551,512,942	106,308,379
1922	587,492,532 <sup>1</sup>	142,000,000 <sup>2</sup>
1923	464,520,397 <sup>1</sup>	218,970,307 <sup>2</sup>
1924	477,815,408 <sup>1</sup>	177,385,654
1925	543,316,851 <sup>1</sup>	109,249,133
1926	513,299,791 <sup>1</sup>	60,680,157
1927	561,657,436 <sup>1</sup>	63,001,947

<sup>1</sup> Square yards.

<sup>2</sup> Partly estimated, as imports of cotton cloth were reported in pounds only from September 22, 1922, to March 31, 1923.

### British Exports of Cotton Cloth and Cotton Yarn

Source: British Board of Trade

YEAR										Cloth (Yards)	Yarn (Pounds)
1900	.	.	.	.	.	.	.	.	.	5,031,727,000	158,272,900
1901	.	.	.	.	.	.	.	.	.	5,364,600,000	169,658,000
1902	.	.	.	.	.	.	.	.	.	5,331,552,200	166,360,900
1903	.	.	.	.	.	.	.	.	.	5,157,315,500	150,758,100
1904	.	.	.	.	.	.	.	.	.	5,591,822,600	163,901,400
1905	.	.	.	.	.	.	.	.	.	6,196,783,900	205,100,500
1906	.	.	.	.	.	.	.	.	.	6,260,771,400	207,378,700
1907	.	.	.	.	.	.	.	.	.	6,297,707,900	241,076,700
1908	.	.	.	.	.	.	.	.	.	5,530,808,500	214,762,200
1909	.	.	.	.	.	.	.	.	.	5,722,158,100	215,223,400
1910	.	.	.	.	.	.	.	.	.	6,017,625,200	191,629,100
1911	.	.	.	.	.	.	.	.	.	6,653,672,300	223,834,400
1912	.	.	.	.	.	.	.	.	.	6,912,919,700	243,850,400
1913	.	.	.	.	.	.	.	.	.	7,075,252,000	210,099,000
1914	.	.	.	.	.	.	.	.	.	5,735,744,500	178,496,800
1915	.	.	.	.	.	.	.	.	.	4,748,452,900	188,169,200
1916	.	.	.	.	.	.	.	.	.	5,254,222,700	172,170,600
1917	.	.	.	.	.	.	.	.	.	4,978,237,900	133,151,300
1918	.	.	.	.	.	.	.	.	.	3,699,252,300	101,711,400
1919	.	.	.	.	.	.	.	.	.	3,523,660,000	162,816,600
1920	.	.	.	.	.	.	.	.	.	4,435,405,000	147,432,400
1921	.	.	.	.	.	.	.	.	.	2,902,288,900	145,894,900
1922	.	.	.	.	.	.	.	.	.	4,183,729,100	201,953,000
1923	.	.	.	.	.	.	.	.	.	4,140,231,900	145,017,400
1924	.	.	.	.	.	.	.	.	.	4,443,959,500	163,056,400
1925	.	.	.	.	.	.	.	.	.	4,435,617,800	189,531,200
1926	.	.	.	.	.	.	.	.	.	3,834,447,700	168,543,200
1927	.	.	.	.	.	.	.	.	.	4,117,683,000	200,502,200

# High and Low Prices of Middling Upland Spot Cotton in New York

[In cents per pound]

Source: New York Cotton Exchange

The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15 they have been from August 1 to July 31.

SEASON	High	Low
1902-03 . . . . .	13.50	8.30
1903-04 . . . . .	17.25	9.50
1904-05 . . . . .	11.65	6.85
1905-06 . . . . .	12.60	9.85
1906-07 . . . . .	13.50	9.60
1907-08 . . . . .	13.55	9.90
1908-09 . . . . .	13.15	9.00
1909-10 . . . . .	16.45	12.40
1910-11 . . . . .	19.75	12.30
1911-12 . . . . .	13.40	9.20
1912-13 . . . . .	13.40	10.75
1913-14 . . . . .	14.50	11.90
1914-15 . . . . .	10.60	7.25
1915-16 . . . . .	13.45	9.20
1916-17 . . . . .	27.65	13.35
1917-18 . . . . .	36.00	21.20
1918-19 . . . . .	38.20	25.00
1919-20 . . . . .	43.75	28.85
1920-21 . . . . .	40.00	10.85
1921-22 . . . . .	23.75	12.80
1922-23 . . . . .	31.30	20.35
1923-24 . . . . .	37.65	23.50
1924-25 . . . . .	31.50	23.41
1925-26 . . . . .	24.75	17.85
1926-27 . . . . .	19.20	12.15

# Highest and Lowest Prices paid for the Principal

DURING MONTH OF —	JANUARY DELIVERY		MARCH DELIVERY		MAY DELIVERY		JULY DELIVERY	
	High	Low	High	Low	High	Low	High	Low
<i>Season of 1924-25</i>								
August, 1924 . . . . .	28.38	23.74	28.64	24.05	28.72	24.23	27.50	23.75
September . . . . .	25.25	21.20	25.45	21.50	25.62	21.72	25.25	21.40
October . . . . .	25.95	22.18	26.20	22.50	26.40	22.70	26.00	22.45
November . . . . .	25.14	22.63	25.45	22.95	25.77	23.18	25.44	22.98
December . . . . .	24.73	22.66	25.15	23.05	25.50	23.40	25.51	23.51
January, 1925 . . . . .	24.55	23.30	24.83	23.06	25.13	23.39	25.25	23.61
February . . . . .	25.33	24.00	25.38	23.85	25.65	24.19	25.88	24.43
March . . . . .	25.45	23.74	25.98	24.92	26.25	24.22	26.38	24.50
April . . . . .	24.95	23.55	25.05	23.73	24.93	23.68	25.27	23.92
May . . . . .	23.92	21.40	24.07	21.62	24.24	21.65	24.36	21.70
June . . . . .	23.70	21.68	24.00	21.96	24.22	22.45	24.09	22.40
July . . . . .	25.10	22.40	25.40	22.72	25.63	22.94	24.62	22.70
Season . . . . .	28.38	21.20	28.64	21.50	28.72	21.65	27.50	21.40
<i>Season of 1925-26</i>								
August, 1925 . . . . .	23.95	21.57	24.20	21.88	24.48	22.18	24.31	22.54
September . . . . .	24.40	21.65	24.68	21.95	25.00	22.25	24.72	22.23
October . . . . .	22.64	18.11	22.90	18.34	23.10	18.50	22.77	18.13
November . . . . .	20.47	18.29	20.53	18.58	20.36	18.67	19.90	18.26
December . . . . .	20.20	18.30	19.94	18.62	19.48	18.36	19.14	18.00
January, 1926 . . . . .	20.35	19.80	20.59	19.68	20.00	19.28	19.30	18.74
February . . . . .	17.94	17.16	20.50	19.25	19.92	18.70	19.20	18.08
March . . . . .	17.60	16.85	19.46	18.83	19.09	18.27	18.64	17.65
April . . . . .	17.35	16.60	17.40	16.72	19.00	18.51	18.44	17.95
May . . . . .	17.75	16.80	17.91	17.01	19.14	18.54	18.69	18.09
June . . . . .	17.59	15.97	17.74	16.16	17.75	16.30	18.46	17.45
July . . . . .	18.03	15.90	18.21	16.08	18.36	16.25	18.82	17.50
Season . . . . .	24.40	15.90	24.68	16.08	25.00	16.25	24.72	17.45
<i>Season of 1926-27</i>								
August, 1926 . . . . .	18.12	16.10	18.26	16.29	18.37	16.45	18.20	16.40
September . . . . .	18.28	14.24	18.50	14.47	18.65	14.70	18.51	14.86
October . . . . .	14.17	12.10	14.37	12.35	14.57	12.56	14.70	12.75
November . . . . .	12.81	12.26	13.02	12.50	13.24	12.72	13.45	12.91
December . . . . .	12.80	11.55	12.96	11.80	13.15	12.02	13.30	12.25
January, 1927 . . . . .	13.47	12.45	13.58	12.62	13.80	12.83	13.98	13.01
February . . . . .	14.90	14.13	14.20	13.25	14.35	13.46	14.51	13.67
March . . . . .	15.02	14.11	14.68	13.51	14.70	13.62	14.79	13.75
April . . . . .	15.96	14.63	16.12	14.75	15.17	13.97	15.42	14.18
May . . . . .	17.52	15.72	17.70	15.88	16.19	14.97	16.84	15.23
June . . . . .	17.70	16.72	17.91	16.88	18.03	17.05	17.05	16.05
July . . . . .	19.47	17.23	19.65	17.42	19.80	17.53	18.30	16.74
Season . . . . .	19.47	11.55	19.65	11.80	19.80	12.02	18.51	12.25

Options on the New York Cotton Exchange

AUGUST DELIVERY		SEPTEMBER DELIVERY		OCTOBER DELIVERY		DECEMBER DELIVERY		DURING MONTH OF —
High	Low	High	Low	High	Low	High	Low	
28.50	25.80	28.59	24.27	29.23	24.05	28.53	23.75	<i>Season of 1924-25</i>
—	—	24.55	23.60	26.25	21.50	25.20	21.17	August, 1924
23.25	22.45	22.67	21.80	26.68	22.61	25.90	22.09	September
24.78	23.00	24.00	22.20	24.20	21.50	24.95	22.55	October
25.00	24.10	25.05	22.95	24.85	22.52	23.80	22.52	November
24.10	23.97	24.32	24.32	24.39	23.40	24.31	23.36	December
25.56	24.60	25.24	25.08	25.51	24.17	25.55	24.20	January, 1925
25.78	25.18	25.68	25.13	25.71	23.92	25.72	23.93	February
25.07	24.03	25.20	24.10	25.15	23.65	25.25	23.82	March
23.60	21.75	24.20	21.75	24.04	21.55	24.24	21.72	April
24.12	22.00	23.83	22.20	24.17	21.87	24.25	22.07	May
25.04	22.78	24.86	23.00	25.55	22.81	25.70	22.95	June
								July
28.50	21.75	28.59	21.75	29.23	21.50	28.53	21.17	Season
								<i>Season of 1925-26</i>
23.25	23.00	23.50	22.42	24.45	21.85	24.50	22.10	August, 1925
—	—	24.05	24.05	24.75	21.95	25.12	22.20	September
21.05	18.50	22.00	18.75	23.30	21.20	23.37	18.75	October
19.45	18.52	19.45	18.45	19.70	18.05	21.42	18.96	November
18.38	18.00	18.53	17.80	18.55	17.64	20.58	19.36	December
—	—	18.50	18.50	18.53	18.02	18.50	17.77	January, 1926
18.78	18.60	18.45	17.86	18.37	17.50	18.03	17.20	February
18.30	17.33	17.62	17.48	18.02	17.15	17.70	16.83	March
17.97	17.61	17.54	17.00	17.78	17.00	17.45	16.66	April
18.19	17.80	17.63	17.28	17.80	17.16	17.79	16.90	May
17.40	16.58	17.50	16.20	17.70	16.14	17.65	16.16	June
18.35	16.90	17.88	16.72	18.03	16.02	17.94	16.00	July
23.25	16.58	24.05	16.20	24.75	16.02	25.12	16.00	Season
								<i>Season of 1926-27</i>
18.45	16.75	18.08	16.96	18.18	16.15	18.12	16.08	August, 1926
—	—	18.06	17.52	18.05	13.91	18.25	14.15	September
14.25	13.32	14.50	13.15	14.22	12.60	14.25	12.00	October
13.22	13.22	13.56	13.18	13.75	13.05	12.73	12.10	November
—	—	13.42	12.50	13.45	12.46	13.16	11.85	December
13.91	13.03	14.10	13.77	14.18	13.21	14.34	13.36	January, 1927
14.44	14.17	14.60	13.97	14.69	13.88	14.86	14.03	February
14.88	13.93	14.60	13.98	14.91	13.92	15.01	14.07	March
15.48	14.55	15.63	14.43	15.72	14.40	15.91	14.59	April
15.60	15.39	17.00	15.72	17.23	15.51	17.46	15.69	May
16.95	16.68	17.11	16.35	17.45	16.41	17.65	16.64	June
18.55	16.93	18.87	17.08	19.15	16.97	19.39	17.17	July
18.55	13.03	18.87	12.50	19.15	12.46	19.39	11.85	Season

## Average Monthly Price of Cotton

Source: New York Cotton Exchange

SEASON	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Av.
1895-96	7.55	8.42	9.05	8.68	8.37	8.28	8.05	7.80	7.92	8.21	7.62	7.27	8.10
1896-97	8.03	8.56	8.04	7.89	7.38	7.38	7.19	7.19	7.40	7.71	7.75	7.94	7.71
1897-98	8.00	7.25	6.31	5.86	5.87	5.94	6.18	6.16	6.27	6.41	6.49	6.18	6.41
1898-99	5.93	5.68	5.41	5.40	5.79	6.10	6.49	6.42	6.22	6.21	6.25	6.14	6.00
1899-1900	6.27	6.45	7.27	7.59	7.66	7.74	8.60	9.70	9.77	9.73	9.18	10.06	8.33
1900-01	9.57	10.29	10.19	9.82	10.16	10.04	9.89	8.68	8.33	8.17	8.42	8.53	9.36
1901-02	8.15	8.39	8.30	7.95	8.38	8.28	8.53	8.99	9.28	9.56	9.34	9.33	8.71
1902-03	8.06	8.97	8.80	8.40	8.62	8.94	9.42	10.00	10.36	9.56	12.36	12.60	9.91
1903-04	12.80	12.00	10.25	10.00	12.71	14.27	14.85	15.61	14.49	13.47	11.80	10.84	12.83
1904-05	10.75	11.07	10.36	10.00	12.00	11.00	11.30	11.34	11.73	11.89	11.11	11.01	11.31
1905-06	10.85	10.88	10.31	11.39	10.77	10.83	11.01	11.16	11.11	11.95	12.97	13.13	11.22
1906-07	10.41	9.78	11.00	10.63	10.77	11.75	11.36	11.01	10.15	13.58	11.61	11.12	11.76
1907-08	13.31	12.61	11.56	11.02	11.88	11.75	11.36	11.01	10.35	11.23	11.46	12.45	10.18
1908-09	10.34	9.38	9.25	9.41	9.25	9.59	9.80	9.76	10.15	15.46	15.06	15.63	14.63
1909-10	12.73	12.97	13.81	14.80	15.13	15.15	14.76	15.02	14.51	14.82	15.77	15.63	14.91
1910-11	16.06	14.60	14.39	14.76	15.08	14.88	14.31	14.31	14.51	10.35	13.63	14.17	10.64
1911-12	12.56	11.35	9.67	9.44	9.37	9.55	10.38	12.88	12.62	12.33	11.94	12.23	12.59
1912-13	12.07	11.75	11.05	12.27	13.02	13.08	12.88	12.62	12.33	13.25	13.39	13.25	13.21
1913-14	12.14	13.41	14.03	13.75	13.04	12.71	12.86	13.25	13.25	9.89	9.66	9.31	9.60
1914-15	11.77	11.00	11.00	9.31	7.51	8.21	8.53	8.98	10.63	12.96	12.97	13.04	11.94
1915-16	9.40	10.53	12.29	11.87	12.33	12.34	11.75	11.80	12.07	20.65	25.00	26.56	19.25
1916-17	14.45	15.82	17.99	19.66	18.47	17.61	16.04	18.42	20.41	27.10	30.37	31.65	29.65
1917-18	25.76	23.17	28.12	29.46	30.72	31.63	33.56	32.81	32.09	32.76	35.32	35.32	31.05
1918-19	33.92	34.97	32.65	29.61	30.30	29.88	29.29	27.54	42.46	41.14	39.46	40.92	38.20
1919-20	32.48	30.30	34.26	39.20	39.18	39.28	38.61	41.15	42.46	41.14	42.46	42.33	37.92
1920-21	36.50	31.18	23.04	17.81	15.83	16.17	13.61	11.55	12.83	20.70	22.08	22.49	18.86
1921-22	13.45	19.15	19.90	18.11	18.32	18.07	17.92	18.38	18.03	27.16	28.58	26.29	26.23
1922-23	21.78	21.44	22.92	25.61	25.74	27.54	28.38	30.35	30.50	31.47	29.90	31.95	31.07
1923-24	24.88	28.43	29.84	34.12	36.25	34.36	32.61	28.57	30.50	24.60	24.10	24.53	24.69
1924-25	29.04	23.55	24.53	24.12	23.81	24.08	24.75	25.72	24.60	23.53	18.49	18.67	20.54
1925-26	24.00	23.71	21.83	21.08	19.93	20.82	20.56	19.30	19.22	18.92	16.87	17.85	15.09
1926-27	18.47	17.53	13.34	12.85	12.70	13.35	14.13	14.29	14.67	16.06			

Monthly figure obtained by averaging Wednesday and Saturday prices.

# Monthly High and Low Prices of Middling Upland Spot Cotton at New York

Source: New York Cotton Exchange

	1919-20		1920-21		1921-22		1922-23		1923-24		1924-25		1925-26		1926-27	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
August . . . . .	35.70	30.55	40.00	31.75	16.60	12.80	23.20	20.35	26.35	23.50	31.50	25.90	24.65	22.20	19.20	17.70
September . . . . .	32.85	28.85	32.25	25.50	21.55	17.50	22.25	20.35	30.75	25.95	26.10	22.15	24.75	22.35	18.95	14.70
October . . . . .	38.55	31.10	25.25	20.50	21.35	18.50	24.35	20.45	31.80	28.20	26.90	22.50	23.55	19.40	14.30	12.45
November . . . . .	40.20	38.40	22.50	15.50	19.00	16.70	26.80	24.45	37.60	31.25	24.85	23.60	21.65	19.90	13.10	12.60
December . . . . .	40.25	38.00	16.70	14.50	19.45	17.50	26.80	24.55	37.65	33.70	24.90	23.15	21.10	19.15	13.10	12.15
January . . . . .	39.75	38.75	18.25	14.30	19.05	16.45	28.75	26.45	35.70	32.90	24.30	23.45	21.25	20.40	13.70	12.80
February . . . . .	40.10	37.55	14.20	11.25	18.85	16.85	30.15	27.40	34.85	29.00	25.35	24.25	21.00	19.75	14.50	13.65
March . . . . .	43.25	40.25	12.55	11.20	18.70	17.80	31.30	28.75	29.25	26.80	26.05	24.60	19.60	19.05	14.85	14.00
April . . . . .	43.25	41.25	12.45	11.65	18.35	17.75	30.05	27.30	31.65	28.50	24.95	24.00	19.45	18.75	15.35	14.30
May . . . . .	43.00	40.00	13.15	12.45	21.80	18.95	28.90	25.30	32.85	30.05	24.40	22.20	19.35	18.70	17.05	15.45
June . . . . .	40.00	37.75	12.95	10.85	23.30	20.75	29.90	27.25	32.75	28.75	24.80	23.35	18.85	18.00	17.10	16.35
July . . . . .	43.75	39.25	12.85	11.95	23.75	21.45	28.05	22.45	35.30	29.60	25.90	23.80	19.35	17.85	18.95	17.05
Season . . . . .	43.75	28.85	40.00	10.85	23.75	12.80	31.30	20.35	37.65	23.50	31.50	22.15	24.75	17.85	19.20	12.15

## Prices of Extra Staple Cotton, 1927

Source: Daily News Record

				AMERICAN STAPLES <sup>1</sup>			EGYPTIANS <sup>1</sup>			Pima <sup>2</sup> No. 2	Peru- vian <sup>1</sup> Mitaffi	Tanguis <sup>3</sup> Strict Middling	New York Middling Spots
				1½-Inch	1⅞-Inch	1½-Inch	Uppers Medium	Saks'- Medium	Saks'- High Grade				
January	4	.	.	17½-18½	21-22½	26	18-19	27½-28½	29	35	19	18½	13.00
January	11	.	.	18-19½	21-22½	26	19-20½	28-29	30½	35	18½	17½-19	13.35
January	18	.	.	18-19½	21-22	26	19-20½	28-29½	31½	35	19	18½	13.65
January	24	.	.	18-19	21-22	26	19-20	28-29½	32	35	19½	18½	13.70
January	31	.	.	17½-19	21-23	26	19½-20½	28½-30	33	35	19½	18½	13.55
February	2	.	.	17½-19½	21-22½	26	19½-20½	28½-29½	32	35	19	18½	13.70
February	9	.	.	18½-19½	21-22	26	19½-20½	27½-29	32	37	19	19	14.25
February	15	.	.	18½-19½	21-22½	26	19½-20	27-28	31	37	18½	18½	14.20
February	21	.	.	19-19½	21½-22½	26	20½-21	27½-28	31	36½	18½	18½	14.00
February	28	.	.	19-20	21½-22½	26	21½-22	27½-28½	31	36½	19	18½	14.50
March	4	.	.	19-20	21½-23	26	21½-22½	27½-28½	31	37	19	18½	14.50
March	12	.	.	19-20	21½-22½	25½	21-22½	28-29	30½	37	19½	19	14.20
March	17	.	.	18½-20	21-23	26	20½-21½	27-28½	30½	39	19½	18½	14.00
March	25	.	.	18-19½	21-23	26	21-22½	27-29	30	40	19½	19	14.40
March	31	.	.	18-19	21-22	26	20½-21½	27-28½	30	40	19	18½	14.45
April	5	.	.	18-19	21-22½	26	21½-22½	27½-28½	32	40	19	18½	14.35
April	12	.	.	18-19	21-22½	26	21-22	27-28	30½	40	19	18½	14.50
April	19	.	.	20½-21½	21-22½	26	21-21½	28-29	31	40	19½	19	14.60
April	25	.	.	19½-21	22-23	26½	21½-22	28-29½	32	40	19½	19½	15.35
April	29	.	.	20-21	22-23½	26½	21½-22½	28½-29½	32	40	19½	19½	15.30
May	4	.	.	20-21	23-24	28½	22-23½	28½-29½	32½	42	20	19½	15.95
May	10	.	.	21-22½	23½-25	29	23½-24½	32-33½	35	42	20	19½	15.75
May	16	.	.	20½-22	24-25½	29	23½-24½	33-34	35	42	21½	20½	15.70
May	23	.	.	22-23	25-26	30	25½-26½	33-35	37½	42	22½	22	16.60
May	31	.	.	21½-22½	25½-27	30	25-26½	33½-34½	37	42	22½	22	17.05
June	1	.	.	21½-23	25½-27	30	25-26	33½-34½	37	42	23	22½	16.95
June	6	.	.	21½-22½	25½-27	30	26½-27	35-36	38	42	23	22½	16.35
June	13	.	.	22½-23½	26-27	30½	26½-27½	35-36	38	42	23	22½	16.60
June	18	.	.	22½-23	25½-26½	30½	26-27	35-35½	37½	42	23½	23	16.90
June	29	.	.	22-22½	26-26½	30½	26-27	36-37	38	42	24½	22½	16.95

<sup>1</sup> New Bedford basis.<sup>2</sup> New England basis.<sup>3</sup> New York basis.



## Prices of Extra Staple Cotton, 1927 — (Concluded)

Source: Daily News Record

		AMERICAN STAPLES <sup>1</sup>			EGYPTIANS <sup>1</sup>			Pima <sup>2</sup> No. 2	Peru- vian <sup>1</sup> Mitafiti	Tanguis <sup>3</sup> Strict Middling	New York Middling Spots
		1½-Inch	1½-Inch	1½-Inch	Uppers Medium	Saks'— Medium	Saks'— High Grade				
July	1	22-23	26-27	31	27-28	36-37	38	42	24½	22½	17.10
July	12	22-23	26-27½	31	27-28	36-37	38	44	25	22½	17.75
July	18	22½-23½	26-27	31	28½-29½	39-40	41½	44	27	22½	18.05
July	22	22½-23½	26½-28	31	29-30	39½-41	42	44	27	22½	18.60
July	27	23-24½	26½-28	31½	30-31½	41-42½	44	44	27½	23½	18.70
August	4	22-23	25½-26½	30	29½-31	39-41	42	45	27½	23½	17.45
August	15	24-25	27½-29	30	30½-31	40-42	44	46	28	23½	19.40
August	20	24½-25½	29-29½	32½	31½-32½	41½-43	45	46	29	26	21.10
August	25	26-27½	28-30½	32	31½-32½	41½-43	44	46	29½	27	21.55
August	31	28-29	30½-31½	34½	31½-32½	41½-43	46	46	30	27	23.10
September	1	27½-28½	30-31½	34	31-32	41½-43½	45	46	30	27	23.10
September	12	29½-30½	32-34	35½	33-34	43-44½	46½	47	31	28	21.95
September	17	29-30	31-32	34	32-33	41-43	45	46	31	28	21.25
September	26	26-27	28-29	32	29½-30½	39-40	43	46	30	27½	21.50
September	30	27½-28	29½-30	33	30-31	40-41	43	45	29	27	21.80
October	4	27-28	29½-30½	32½	31-32	38-39½	43½	44	29	27	21.40
October	11	26-27	28-29	31½	30½-31	38-39	43	43	29	27	20.90
October	17	26-27	28½-29	31½	30-31	38-39½	43	42	30	27	21.25
October	21	25-26	27½-28½	31	29-30	37-38	42	41½	30	27	20.00
October	29	25½-26½	28-29	30	30-31	39-40	42	41½	31	26½	20.70
November	4	26½-27½	28-29	31	31-32	38-39	41½	41½	32	27½	21.20
November	11	25-26	27-27½	29	29½-30½	40-41	42	42	31½	27	20.25
November	16	25½-26½	27-28	29½	30-31	40-41½	42	42	31	26½	20.10
November	21	25-25½	26-26½	29	29½-30½	38-39	41	42	31	26	20.30
November	29	24-25	26-27	29	29-30	38-39½	41	41½	31	26	19.40
December	1	24-25	26-27	29	29½-30½	38½-39½	41	41½	31	26	19.65
December	8	24-24½	25-26½	28	28½-29½	36-37½	40	41½	31	26	19.15
December	13	23½-24	23½-26	27½	28-29	36½-37½	39	40½	31	26	18.60
December	19	23½-24	25-26	27½	28-29	34-35	37½	40	32	26	19.75
December	28	24-26	26-27½	29	28-29½	34½-36	38	40	31	25½	20.00

<sup>1</sup> New Bedford basis.<sup>2</sup> New England basis.<sup>3</sup> New York basis.

# Premiums on Staple Cotton in the Memphis Market

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDREDTHS OF CENT			
		Staple 1 <sup>1</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>8</sub> Inches	Staple 1 <sup>3</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>4</sub> Inches
1920-1921					
August . . . . .	36.23	300	2,383	—	—
September . . . . .	30.07	233	1,966	—	—
October . . . . .	22.68	118	829	1,520	1,567
November . . . . .	18.81	208	425	787	1,000
December . . . . .	15.68	100	275	475	650
January . . . . .	16.63	94	375	675	925
February . . . . .	13.44	50	325	613	900
March . . . . .	11.74	50	250	500	775
April . . . . .	12.14	81	305	565	—
May . . . . .	12.84	44	406	631	912
June . . . . .	12.00	50	315	619	881
July . . . . .	12.41	95	625	865	1,095
Average . . . . .	17.89	119	707	725	967
1921-1922					
August . . . . .	13.79	67	550	933	1,400
September . . . . .	19.95	183	550	1,183	1,517
October . . . . .	19.63	190	680	1,160	1,640
November . . . . .	18.01	175	600	1,000	1,225
December . . . . .	18.30	225	585	925	1,145
January . . . . .	17.94	225	500	975	1,244
February . . . . .	17.90	200	525	850	1,125
March . . . . .	18.31	144	444	744	1,069
April . . . . .	18.06	175	415	660	900
May . . . . .	20.75	181	469	731	981
June . . . . .	22.10	125	425	837	1,137
July . . . . .	22.27	95	410	710	1,010
Average . . . . .	18.92	165	513	892	1,199

**Premiums on Staple Cotton in the Memphis Market —  
(Continued)**

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDREDTHS OF CENT			
		Staple 1 <sup>1</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>8</sub> Inches	Staple 1 <sup>3</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>4</sub> Inches
1922-1923					
August . . . . .	21.86	125	338	Nom.	Nom.
September . . . . .	21.35	175	315	795	994
October . . . . .	22.73	175	400	675	850
November . . . . .	25.64	125	275	488	738
December . . . . .	25.65	75	195	335	495
January . . . . .	27.55	94	175	288	463
February . . . . .	28.63	66	153	266	403
March . . . . .	30.55	40	105	165	315
April . . . . .	28.88	6	106	275	450
May . . . . .	27.98	—	100	194	281
June . . . . .	28.52	—	30	65	160
July . . . . .	26.22	12	31	181	331
Average . . . . .	26.30	74	185	339	498
1923-1924					
August . . . . .	25.20	70	210	400	630
September . . . . .	29.06	81	237	350	475
October . . . . .	30.06	75	200	325	450
November . . . . .	34.73	75	130	240	320
December . . . . .	35.95	94	181	344	456
January . . . . .	34.18	65	135	300	440
February . . . . .	31.88	50	75	200	350
March . . . . .	28.39	50	69	112	212
April . . . . .	30.30	50	81	125	225
May . . . . .	31.54	50	70	105	185
June . . . . .	29.96	69	119	200	262
July . . . . .	32.07	83	125	200	300
Average . . . . .	31.11	68	136	242	359

# **Premiums on Staple Cotton in the Memphis Market — (Continued)**

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDRETHS OF CENT			
		Staple 1 <sup>1</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>8</sub> Inches	Staple 1 <sup>3</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>4</sub> Inches
1924-1925					
August . . . . .	29.01	75	300	500	600
September . . . . .	24.24	67	167	317	517
October . . . . .	24.47	96	206	326	861
November . . . . .	24.22	94	250	425	656
December . . . . .	23.85	125	362	525	750
January . . . . .	23.98	230	555	795	965
February . . . . .	24.70	200	487	762	1,037
March . . . . .	25.64	287	587	937	1,350
April . . . . .	24.54	287	675	1,062	1,487
May . . . . .	23.41	245	675	1,041	1,415
June . . . . .	24.13	194	456	869	1,219
July . . . . .	24.68	220	445	690	930
Average . . . . .	24.74	177	430	687	982
1925-1926					
August . . . . .	23.72	150	345	570	820
September . . . . .	23.79	144	325	537	800
October . . . . .	21.77	150	410	620	890
November . . . . .	20.94	219	456	825	1,087
December . . . . .	20.06	206	594	894	1,119
January . . . . .	20.84	265	525	825	1,105
February . . . . .	20.60	187	394	644	894
March . . . . .	19.35	206	462	787	1,062
April . . . . .	19.13	181	519	744	1,081
May . . . . .	18.92	145	405	610	1,065
June . . . . .	18.51	206	369	469	919
July . . . . .	18.71	185	235	515	715
Average . . . . .	20.53	187	419	678	963

# Premiums on Staple Cotton in the Memphis Market— (Concluded)

(United States Department of Agriculture)

SEASON AND MONTH	Average Spot Price (Cents)	PREMIUMS SHOWN IN HUNDREDTHS OF CENT			
		Staple 1 <sup>1</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>8</sub> Inches	Staple 1 <sup>3</sup> / <sub>16</sub> Inches	Staple 1 <sup>1</sup> / <sub>4</sub> Inches
<b>1926-1927</b>					
August . . . . .	18.57	144	275	550	825
September . . . . .	17.01	156	331	531	800
October . . . . .	13.14	110	440	440	820
November . . . . .	12.86	131	406	406	820
December . . . . .	12.68	120	400	400	900
January . . . . .	13.42	119	450	450	800
February . . . . .	14.11	100	225	375	700
March . . . . .	14.33	163	213	400	700
April . . . . .	14.77	150	200	400	950
May . . . . .	16.04	200	325	550	950
June . . . . .	16.85	200	325	600	1,000
July . . . . .	17.99	200	350	600	1,000
Average . . . . .	15.15	149	328	475	772

# Comparative Prices of Foreign Cotton

[January 1 quotations at Liverpool]

Pence per pound

	1928	1927	1926	1925	1924
American, middling . . .	11.08	6.89	9.81	13.57	21.06
Egyptian:					
FGF Sak . . . .	17.90	13.95	17.00	30.15	24.50
FGF Upper . . . .	14.50	9.90	14.30	19.80	22.60
FGF Pilon . . . .	14.75	10.40	15.40	22.10	23.10
Indian:					
Fine Broach . . . .	9.90	6.30	8.85	12.45	18.00
Fine Oomra, No. 1 . . .	9.15	6.25	8.35	12.40	16.10
Fine Bengal . . . .	8.40	5.50	7.75	11.90	14.70
Fine Surtee . . . .	10.40	6.80	9.30	13.20	18.60
South American:					
Fair Peruvian . . . .	11.33	7.00	14.00	14.82	21.46
Fair Parahyba . . . .	11.33	7.19	10.31	14.82	20.83
Fair Sao Paulo . . . .	10.58	6.19	9.31	13.82	20.38

# Relative Wholesale Prices of Cotton Yarn and Cotton Fabrics in Comparison with Other Groups of Commodities, from 1918 to 1928 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Yarn 10-1 Carded	Pepperell Brown Sheeting 4-4	Lonsdale Bleached Muslin 4-4	Farm Prod- ucts	Foods	Fuel and Light- ing	Metals and Metal Prod- ucts	Build- ing Mat- erials	Chem- icals and Drugs	House Fur- nish- ing Goods	All Com- modi- ties
Average of 1913	100	100	100	100	100	100	100	100	100	100	100
January, 1918 .	242.3	232.6	218.3	211	182	164	183	161	223	137	184
April, 1918 .	278.4	327.4	279.0	213	181	166	184	169	228	144	190
July, 1918 .	289.7	- <sup>1</sup>	303.2	217	185	175	189	177	209	159	196
October, 1918 .	275.6	274.6	303.2	225	198	176	192	177	211	164	202
January, 1919 .	201.3	260.6	258.5	224	203	178	175	176	181	167	199
April, 1919 .	188.5	204.6	218.1	230	205	177	153	169	160	167	199
July, 1919 .	267.1	299.0	338.5	241	210	181	160	209	167	183	212
October, 1919 .	276.1	313.0	363.9	227	205	189	162	229	173	194	211
January, 1920 .	328.6	389.1	399.9	247	231	194	175	274	189	239	233
April, 1920 .	351.7	- <sup>1</sup>	412.4	243	238	231	203	300	210	242	245
July, 1920 .	316.7	- <sup>1</sup>	412.4	233	238	259	202	269	212	275	241
October, 1920 .	196.3	274.2	296.2	187	201	280	191	240	198	271	211
January, 1921 .	130.1	165.6	190.8	143	162	247	153	192	153	217	170
April, 1921 .	107.9	136.4	188.0	117	144	205	138	167	135	216	148
July, 1921 .	108.9	136.4	169.8	119	141	186	124	160	129	180	141
October, 1921 .	173.2	184.2	200.1	124	140	189	116	159	131	180	142
January, 1922 .	147.3	160.3	181.9	122	131	195	112	157	124	178	138
April, 1922 .	141.7	153.5	169.8	129	137	194	113	156	124	175	143
July, 1922 .	170.7	174.8	182.3	135	142	254	121	170	121	173	155
October, 1922 .	176.5	183.9	194.1	138	140	226	135	183	124	176	154
January, 1923 .	196.7	199.3	202.7	143	141	218	133	188	131	184	156
April, 1923 .	202.4	211.5	212.2	141	144	200	154	204	136	187	159
July, 1923 .	182.5	197.8	194.1	135	141	183	145	190	128	187	151
October, 1923 .	208.1	204.6	200.1	144	148	172	142	182	129	183	153
January, 1924 .	233.4	225.1	218.3	144	143	169	142	181	132	176	151
April, 1924 .	202.3	211.5	206.2	139	137	179	139	182	128	175	148
July, 1924 .	197.8	211.5	201.7	134	136	175	132	173	127	172	147
October, 1924 .	187.7	204.6	206.2	143	148	168	128	171	131	171	152
January, 1925 .	183.6	201.2	206.2	163	160	168	136	179	135	173	160
April, 1925 .	173.3	201.2	209.3	153	154	169	129	174	134	171	156
July, 1925 .	174.3	177.4	180.3	162	157	172	126	170	133	169	160
October, 1925 .	179.4	180.8	200.1	155	158	172	128	174	135	168	158
January, 1926 .	164.0	180.8	194.1	152	156	177	129	178	133	165	156
April, 1926 .	153.2	180.8	194.1	145	153	174	127	173	130	163	151
July, 1926 .	142.2	163.7	183.3	141	154	177	126	172	131	161	151
October, 1926 .	133.9	158.3	185.0	139	152	184	127	172	129	160	150
January, 1927 .	118.2	146.7	169.8	137	150	180	124	170	122	157	147
April, 1927 .	121.8	146.7	169.8	137	147	161	122	165	122	157	144
July, 1927 .	137.9	162.1	169.8	140	146	159	119	162	121	157	145
October, 1927 <sup>2</sup> .	109.0	114.2	97.5	107	100	84	97	92	97	99	97
Average of 1926	100	100	100	100	100	100	100	100	100	100	100

<sup>1</sup> No quotation.

<sup>2</sup> October figures based on average of 1926.

# Actual Prices of Cotton in Comparison with Other Basic Raw Materials, from 1918 to 1928 by Quarters

Source: United States Bureau of Labor Statistics

	Cotton Middling Upland (per Pound)	Wool 1-2 Grades Scoured (per Pound)	Wheat No. 1 Northern (per Bushel)	Corn Contract Grade (per Bushel)	Cattle Good to Choice Steers (per 100 Pounds)	Copper Electro- lytic (per Pound)	Iron Bessemer, Pig (per 2,240 Pounds)	Coal, Bitu- minous (per 2,000 Pounds)
Average of 1913	<b>\$0.128</b>	\$0.471	\$0.874	\$0.625	\$8.507	\$0.157	\$17.133	\$2.200
January, 1918 .	<b>.324</b>	1.455	2.170	1.775	13.113	.235	37.250	3.600
April, 1918 .	<b>.317</b>	1.455	2.170	1.665	15.175	.235	36.150	3.600
July, 1918 .	<b>.312</b>	1.437	2.170	1.665	17.625	.255	36.600	4.100
October, 1918 .	<b>.325</b>	1.437	2.216	1.385	17.856	.260	36.600	4.100
January, 1919 .	<b>.296</b>	1.200	2.223	1.401	18.413	.204	33.600	4.100
April, 1919 .	<b>.290</b>	1.091	2.589	1.609	18.325	.153	29.350	4.000
July, 1919 .	<b>.351</b>	1.236	2.680	1.920	16.869	.215	29.350	4.000
October, 1919 .	<b>.355</b>	1.236	2.625	1.400	17.594	.217	29.350	4.500
January, 1920 .	<b>.393</b>	1.236	2.931	1.503	15.938	.193	40.400	4.100
April, 1920 .	<b>.424</b>	1.200	3.006	1.706	13.906	.192	43.650	5.500
July, 1920 .	<b>.410</b>	.909	2.831	1.549	15.381	.190	47.150	6.000
October, 1920 .	<b>.226</b>	.727	2.106	.888	14.688	.168	49.210	7.100
January, 1921 .	<b>.167</b>	.546	1.788	.682	9.840	.129	33.960	5.600
April, 1921 .	<b>.121</b>	.527	1.406	.578	8.719	.125	26.960	4.850
July, 1921 .	<b>.124</b>	.491	1.438	.614	8.406	.125	22.835	4.600
October, 1921 .	<b>.197</b>	.473	1.319	.470	8.875	.127	21.960	4.100
January, 1922 .	<b>.179</b>	.582	1.300	.484	8.150	.136	21.560	3.750
April, 1922 .	<b>.181</b>	.727	1.563	.588	8.406	.126	22.585	3.600
July, 1922 .	<b>.223</b>	.818	1.423	.643	9.700	.137	26.770	5.390
October, 1922 .	<b>.228</b>	.836	1.132	.691	10.245	.137	35.170	6.390
January, 1923 .	<b>.275</b>	.982	1.221	.711	9.780	.146	29.270	5.640
April, 1923 .	<b>.290</b>	1.018	1.279	.793	9.015	.169	32.770	4.890
July, 1923 .	<b>.259</b>	1.000	1.084	.857	10.590	.144	28.464	3.890
October, 1923 .	<b>.301</b>	.946	1.172	1.011	10.450	.126	26.960	3.890
January, 1924 .	<b>.347</b>	.982	1.151	.759	9.469	.126	24.760	3.640
April, 1924 .	<b>.299</b>	.964	1.131	.790	10.775	.133	24.560	3.390
July, 1924 .	<b>.291</b>	.873	1.296	1.055	9.563	.124	21.960	3.390
October, 1924 .	<b>.245</b>	1.055	1.434	1.105	9.500	.130	21.760	3.390
January, 1925 .	<b>.240</b>	.700	1.819	1.271	10.594	.148	24.635	3.390
April, 1925 .	<b>.243</b>	.550	1.549	1.082	9.988	.133	22.885	3.390
July, 1925 .	<b>.243</b>	.520	1.591	1.065	11.563	.140	20.760	3.390
October, 1925 .	<b>.211</b>	.530	1.549	.828	11.903	.143	21.385	3.390
January, 1926 .	<b>.208</b>	.530	1.728	.804	9.875	.138	22.760	3.490
April, 1926 .	<b>.194</b>	.450	1.610	.728	9.125	.137	21.385	3.390
July, 1926 .	<b>.182</b>	.430	1.693	.804	9.419	.139	20.385	3.390
October, 1926 .	<b>.128</b>	.450	1.433	.777	9.888	.139	20.885	— <sup>1</sup>
January, 1927 .	<b>.134</b>	.440	1.413	.768	10.295	.130	21.260	3.890
April, 1927 .	<b>.146</b>	.430	1.341	.735	12.281	.128	21.260	3.390
July, 1927 .	<b>.180</b>	.440	1.440	1.021	12.300	.125	20.260	3.640
October, 1927 <sup>2</sup> .	<b>.211</b>	.470	1.275	.878	8.425	.130	19.760	4.199
Average of 1926	<b>.175</b>	.456	1.554	.751	9.387	.138	21.324	3.603

<sup>1</sup> Quotations not received.<sup>2</sup> October figures based on average of 1926.



# Relative Prices of Cotton in Comparison with Other Basic Raw Materials, from 1918 to 1928 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Middling (Upland)	Wool 1-2 Grades Scoured	Wheat No. 1 Northern	Corn Contract Grade	Cattle Good to Choice Steers	Copper Electro- lytic	Iron Bessemer, Pig	Coal, Bitu- minous
Average of 1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
January, 1918	253.1	308.9	248.3	284.0	154.1	149.7	217.4	162.7
April, 1918	247.7	308.9	248.3	266.4	178.4	149.7	211.0	162.7
July, 1918	243.8	305.1	248.3	266.4	207.2	162.4	213.6	186.4
October, 1918	253.9	305.1	253.5	221.6	209.9	165.6	213.6	186.4
January, 1919	231.3	254.8	254.3	224.2	216.4	129.9	196.1	186.4
April, 1919	226.6	231.6	296.2	257.4	215.4	97.5	171.3	181.8
July, 1919	274.2	262.4	306.6	307.2	198.3	136.9	171.3	181.8
October, 1919	277.3	262.4	300.3	224.0	206.8	138.2	171.3	204.5
January, 1920	307.1	258.4	335.6	240.4	187.3	122.8	235.8	186.4
April, 1920	331.4	250.6	344.2	273.0	163.5	122.0	254.8	250.0
July, 1920	320.6	189.9	324.1	247.8	180.8	120.8	275.2	272.7
October, 1920	176.8	151.9	241.1	142.0	172.7	106.5	287.2	322.7
January, 1921	130.6	114.0	204.7	109.1	115.7	81.9	198.2	254.5
April, 1921	94.9	110.1	160.9	92.5	102.5	79.3	157.4	220.5
July, 1921	96.6	102.6	164.7	98.2	98.8	79.7	133.3	209.1
October, 1921	154.0	98.7	151.0	75.1	104.3	80.6	128.2	186.4
January, 1922	140.0	121.6	148.8	77.4	95.8	86.1	125.8	170.5
April, 1922	141.5	151.9	178.9	94.1	98.8	80.3	131.8	163.6
July, 1922	174.6	170.9	162.8	102.8	114.0	87.2	156.3	245.0
October, 1922	178.0	174.8	129.6	110.6	120.4	87.0	205.3	290.5
January, 1923	214.7	205.2	139.8	113.7	115.0	92.5	170.8	256.4
April, 1923	226.3	212.7	146.4	126.8	106.0	107.5	191.3	222.3
July, 1923	202.3	208.8	124.1	137.1	124.5	91.7	166.1	176.8
October, 1923	234.9	197.6	134.2	161.7	122.8	80.3	157.4	176.8
January, 1924	271.4	205.2	131.7	121.3	111.3	80.1	144.5	165.5
April, 1924	233.6	201.3	129.5	126.4	126.7	84.2	143.4	154.1
July, 1924	229.1	182.3	148.4	168.7	112.4	78.5	128.2	154.1
October, 1924	191.6	220.2	164.2	176.8	111.7	82.6	127.0	154.1
January, 1925	188.0	266.0	208.3	203.3	109.5	94.0	143.8	154.1
April, 1925	191.6	218.2	168.7	173.1	117.4	84.8	133.6	154.1
July, 1925	190.9	206.3	181.3	170.3	135.9	88.8	121.2	154.1
October, 1925	165.8	210.2	169.2	132.4	140.0	91.2	124.8	154.1
January, 1926	158.6	201.4	197.8	128.7	116.1	87.8	132.8	158.6
April, 1926	142.4	178.5	184.3	116.4	107.3	87.2	124.8	154.1
July, 1926	143.6	170.6	193.8	128.6	110.7	88.4	119.0	154.1
October, 1926	100.6	178.5	164.0	124.2	116.2	88.3	121.9	- <sup>1</sup>
January, 1927	103.5	174.5	161.7	122.8	121.0	82.8	124.1	176.8
April, 1927	114.5	170.6	153.5	117.6	150.0	81.6	124.1	165.5
July, 1927	140.7	170.4	166.6	163.4	144.6	79.3	118.3	165.5
October, 1927	120.3	102.9	82.4	115.7	129.8	94.1	92.7	97.3
Average of 1926	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

<sup>1</sup> Quotations not received.

# **Prices of Staple Cotton Yarns in the United States on First of Each Quarter during Years 1916 to 1927, inclusive**

[Prices are per pound]

Source: Daily News Record and Textile World

DATE	10s Single Southern Carded Frame Cones	20/2 Southern Carded Skeins	60/2 Eastern Combed Peeler Warps
January 1, 1916 . . . .	20 to 22	25 to 27	61 to 66
April 1, 1916 . . . .	20½ to 22	26 to 27	66 to 71
July 1, 1916 . . . .	23¼ to 24	28 to 31	76 to 81
October 1, 1916 . . . .	29 to 31	33½ to 35	97 to 1 02
January 1, 1917 . . . .	35 to 37	39 to 41	1 10 to 1 15
April 1, 1917 . . . .	34 to 36	36½ to 38	93 to 95
July 1, 1917 . . . .	44 to 46	43 to 46	1 10 to 1 15
October 1, 1917 . . . .	41 to 42	42 to 45	1 10 to 1 15
January 1, 1918 . . . .	50 to 52	55 to 58	1 20 to 1 25
April 1, 1918 . . . .	60 to 61	67 to 68	1 20 to 1 25
July 1, 1918 . . . .	61 to 63	71 to 73	1 20 to 1 25
October 1, 1918 . . . .	61 to 63	73 to 75	1 20 to 1 25
January 1, 1919 . . . .	50 to 53	62 to 65	1 20 to 1 30
April 1, 1919 . . . .	41 to 43	46 to 50	1 05 to 1 10
July 1, 1919 . . . .	55 to 57	67 to 69	1 55 to 1 60
October 1, 1919 . . . .	60 to 63	70 to 72½	1 90 to 1 95
January 1, 1920 . . . .	69 to 73	84 to 85	3 50
April 1, 1920 . . . .	74 to 77	90 to 92	3 75
July 1, 1920 . . . .	70 to 75	80 to 85	2 50
October 1, 1920 . . . .	42 to 45	50 to 55	1 50
January 1, 1921 . . . .	28 to 29	31 to 32	85
April 1, 1921 . . . .	21 to 22	23 to 24	80
July 1, 1921 . . . .	21 to 22	22½ to 23	85 to 95
October 1, 1921 . . . .	35 to 37	36½ to 38	1 10
January 1, 1922 . . . .	30½ to 31	33½ to 34	1 10
April 1, 1922 . . . .	28½	31½	1 05
July 1, 1922 . . . .	35	39	1 05
October 1, 1922 . . . .	34 to 34½	38 to 38½	1 00
January 1, 1923 . . . .	41½ to 42	49 to 49½	1 10 to 1 18
April 1, 1923 . . . .	45½	54	1 05 to 1 15
July 1, 1923 . . . .	39 to 39½	44½ to 45	95 to 1 05
October 1, 1923 . . . .	44	49½ to 50	95 to 1 00
January 1, 1924 . . . .	50	55	1 05 to 1 15
April 1, 1924 . . . .	40½	44 to 44½	78 to 82
July 1, 1924 . . . .	40	43½	74 to 78
October 1, 1924 . . . .	40	44 to 44½	74 to 77
January 1, 1925 . . . .	39	44½	77 to 80
April 1, 1925 . . . .	39	43	76 to 79
July 1, 1925 . . . .	36	38 to 38½	70 to 74
January 1, 1926 . . . .	33½ to 34	36	88 to 90 <sup>1</sup>
April 1, 1926 . . . .	30	33½	77 to 78
July 1, 1926 . . . .	27½	30½	77 to 80
October 1, 1926 . . . .	26	29½	67½ to 70
January 1, 1927 . . . .	23½	26½ to 27	57 to 60
April 1, 1927 . . . .	24½	28½ to 29	62 to 65
July 1, 1927 . . . .	27½	30 to 31	67 to 69
October 1, 1927 . . . .	34½	39 to 40	80 to 85
January 1, 1928 . . . .	32	36½ to 37	68 to 71

<sup>1</sup> 1926 figures are for 60/2 Southern combed, as Eastern combed were not reported.

# Prices of Carded Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1927

[Prices are per pound]

Compiled by Frederick B. Macy & Co., New Bedford

DATE	CARDED SINGLE WARPS				CARDED TWO-PLY WARPS				Mid-up Spot Cotton, New York (in Cents)	Staple Cotton 1 <sup>1</sup> / <sub>8</sub> In- ches (in Cents) <sup>1</sup>
	8s	20s	30s	40s	8s	20s	30s	40s		
January 3 . . .	\$0 24	\$0 30	\$0 34	\$0 46	\$0 25	\$0 33	\$0 36	\$0 48	12.80	21 <sup>1</sup> / <sub>2</sub>
8 . . .	24	30	34	46	25	33	36	48	13.15	21 <sup>1</sup> / <sub>2</sub>
15 . . .	24	30	34	46	25	33	36	48	13.55	21 <sup>1</sup> / <sub>2</sub>
22 . . .	25	30	34	46	26	33	38	48	13.65	21 <sup>1</sup> / <sub>2</sub>
29 . . .	25	30	35	46	26	33	38	48	13.65	21 <sup>1</sup> / <sub>2</sub>
February 4 . . .	25	30	35	46	26	33	38	48	14.00	21 <sup>1</sup> / <sub>2</sub>
12 . . .	25	30	35	46	26	33	38	48	14.10	21 <sup>1</sup> / <sub>2</sub>
19 . . .	26	30	35	47	27	33	38	50	14.10	21 <sup>1</sup> / <sub>2</sub>
26 . . .	26	31	35	47	27	34	38	50	14.40	22
March 1 . . .	26	31	35	47	27	34	38	50	14.85	22
5 . . .	26	31	35	46	27	34	38	48	14.40	22
12 . . .	26	30	35	46	27	33	38	48	14.20	22
19 . . .	25	30	35	46	26	33	38	48	14.05	21 <sup>1</sup> / <sub>2</sub>
26 . . .	25	29 <sup>1</sup> / <sub>2</sub>	35	45	26	33	38	47	14.40	21 <sup>1</sup> / <sub>2</sub>
April 1 . . .	25	29 <sup>1</sup> / <sub>2</sub>	35	45	26	33	38	47	14.40	21 <sup>1</sup> / <sub>2</sub>
8 . . .	25	29 <sup>1</sup> / <sub>2</sub>	35	45	26	33	38	47	14.45	21 <sup>1</sup> / <sub>2</sub>
15 . . .	25	29	35	45	26	33	38	47	14.50	21 <sup>1</sup> / <sub>2</sub>
22 . . .	24	29	35	44	25	33	37	46	15.05	22 <sup>1</sup> / <sub>2</sub>
29 . . .	24	29	35	44	25	33	37	46	15.30	22 <sup>1</sup> / <sub>2</sub>
May 2 . . .	24	29	35	44	25	33	37	46	15.45	23 <sup>1</sup> / <sub>2</sub>
7 . . .	25	30	35	45	26	34	37	47	15.95	24 <sup>1</sup> / <sub>2</sub>
14 . . .	25	30	36	46	26	34	37	48	15.65	25
21 . . .	26	31	36	46	27	34	37	48	16.30	25 <sup>1</sup> / <sub>2</sub>
28 . . .	27	31	37	47	28	35	38	50	16.75	26
June 4 . . .	27	31	37	47	28	35	38	50	16.75	26
13 . . .	27	32	37	47	28	36	38	50	16.60	26 <sup>1</sup> / <sub>2</sub>
18 . . .	27	32	36	47	28	36	38	50	16.90	26
25 . . .	27	32	36	47	28	36	38	50	16.85	26 <sup>1</sup> / <sub>2</sub>
30 . . .	27	32	36	47	28	36	38	50	17.05	26 <sup>1</sup> / <sub>2</sub>
July 2 . . .	27	32	36	47	28	36	38	50	17.15	26 <sup>1</sup> / <sub>2</sub>
8 . . .	27	32	36	47	28	36	38	50	17.15	26 <sup>1</sup> / <sub>2</sub>
16 . . .	27	34	38	48	28	38	39	51	18.30	27
23 . . .	28	35	39	49	29	40	40	52	18.55	27 <sup>1</sup> / <sub>2</sub>
30 . . .	28	35	39	49	29	40	40	52	18.30	27
August 5 . . .	30	36	39	49	30	40	40	52	17.10	26 <sup>1</sup> / <sub>2</sub>
13 . . .	31	37	40	50	32	42	42	53	18.90	28
20 . . .	33	38	42	52	34	43	44	55	21.10	29
27 . . .	34	39	44	54	35	44	46	57	22.60	30
September 3 . . .	34	39	44	54	35	44	46	57	22.60	31 <sup>1</sup> / <sub>2</sub>
10 . . .	36	40	45	55	37	45	47	58	22.80	32 <sup>1</sup> / <sub>2</sub>
17 . . .	35	40	44	55	36	45	47	58	21.25	30
24 . . .	35	40	45	55	36	45	47	58	20.85	29
30 . . .	35	40	45	55	36	45	47	58	21.80	30
October 1 . . .	35	40	45	55	36	45	47	58	21.80	30
8 . . .	35	40	45	55	36	45	47	58	21.75	29
15 . . .	34	39	45	55	35	44	46	57	21.50	28 <sup>1</sup> / <sub>2</sub>
22 . . .	34	38	44	54	35	43	45	56	20.00	27 <sup>1</sup> / <sub>2</sub>
29 . . .	34	38	44	54	35	43	45	56	20.70	28
November 5 . . .	34	38	44	54	35	43	45	56	21.25	28
12 . . .	34	38	44	54	35	43	45	56	20.30	27
19 . . .	33	38	42	52	35	43	44	54	19.80	26 <sup>1</sup> / <sub>2</sub>
26 . . .	32	38	42	52	34	43	44	54	19.75	26 <sup>1</sup> / <sub>2</sub>
December 3 . . .	32	38	42	52	34	43	44	54	19.95	26 <sup>1</sup> / <sub>2</sub>
10 . . .	32	38	42	52	34	43	44	54	19.25	25 <sup>1</sup> / <sub>2</sub>
17 . . .	32	39	42	52	34	43	44	54	19.45	25 <sup>1</sup> / <sub>2</sub>
23 . . .	32	39	42	52	34	43	44	54	19.75	26 <sup>1</sup> / <sub>2</sub>
31 . . .	32	39	42	53	34	43	45	55	20.10	26 <sup>1</sup> / <sub>2</sub>

<sup>1</sup> New Bedford basis.

# Prices of Combed Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1927

[Prices are per pound]

Source: Frederick B. Macy & Co., New Bedford

DATE	COMBED SINGLE WARPS				COMBED TWO-PLY WARPS				Mid-up Spot Cotton, New York (in Cents)	Staple Cotton 1 $\frac{1}{8}$ In- ches (in Cents) <sup>1</sup>
	30s	40s	50s	60s	30s	40s	50s	60s		
January 3 . . .	\$0 55	\$0 62	\$0 69	\$0 78	\$0 60	\$0 68	\$0 78	\$0 90	12 80	21 $\frac{1}{2}$
8 . . .	55	62	69	78	60	68	78	90	13.15	21 $\frac{1}{2}$
15 . . .	55	62	69	78	60	68	78	90	13.55	21 $\frac{1}{2}$
22 . . .	56	64	70	80	61	70	78	90	13.65	21 $\frac{1}{2}$
29 . . .	56	64	70	80	61	70	78	90	13.65	21 $\frac{1}{2}$
February 4 . . .	56	64	70	80	61	70	78	90	14.00	21 $\frac{1}{2}$
12 . . .	56	64	70	80	61	70	78	90	14.10	21 $\frac{1}{2}$
19 . . .	56	64	70	80	61	70	78	90	14.10	21 $\frac{1}{2}$
26 . . .	56	64	70	80	61	70	78	90	14.40	22
March 1 . . .	56	64	70	80	61	70	78	90	14.85	22
5 . . .	56	64	70	80	61	70	78	90	14.40	22
12 . . .	54	62	68	78	59	68	76	90	14.20	22
19 . . .	52	60	67	78	57	66	75	88	14.05	21 $\frac{1}{2}$
26 . . .	52	60	67	78	57	66	75	88	14.40	21 $\frac{1}{2}$
April 1 . . .	52	60	67	78	57	66	75	88	14.40	21 $\frac{1}{2}$
8 . . .	52	60	67	78	57	66	75	88	14.45	21 $\frac{1}{2}$
15 . . .	52	60	67	78	57	66	75	88	14.50	21 $\frac{1}{2}$
22 . . .	52	60	67	78	57	66	75	88	15.05	22 $\frac{1}{2}$
29 . . .	52	60	67	80	57	66	75	88	15.30	22 $\frac{1}{2}$
May 2 . . .	52	60	67	80	57	66	75	88	15.45	23 $\frac{1}{2}$
7 . . .	55	65	70	82	58	67	77	88	15.95	24 $\frac{1}{2}$
14 . . .	55	65	70	83	58	67	77	88	15.65	25
21 . . .	55	65	70	83	60	68	77	90	16.30	25 $\frac{1}{2}$
28 . . .	55	65	72	85	60	70	80	92	16.75	26
June 4 . . .	55	66	72	85	60	70	80	92	16.75	26
13 . . .	55	68	73	85	60	70	80	92	16.60	26 $\frac{1}{2}$
18 . . .	55	66	73	85	60	70	80	92	16.90	26
25 . . .	54	66	72	85	58	70	78	92	16.85	26 $\frac{1}{2}$
30 . . .	54	65	72	84	58	70	78	90	17.05	26 $\frac{1}{2}$
July 2 . . .	54	65	72	84	58	70	78	90	17.15	26 $\frac{1}{2}$
8 . . .	54	65	72	84	58	70	78	90	17.15	26 $\frac{1}{2}$
16 . . .	54	65	74	84	58	70	80	90	18.30	27
23 . . .	54	65	76	86	58	70	82	92	18.55	27 $\frac{1}{2}$
30 . . .	55	65	76	86	60	70	82	92	18.30	27
August 5 . . .	55	65	76	86	60	70	82	92	17.10	26 $\frac{1}{2}$
13 . . .	57	67	78	88	62	72	84	94	18.90	28
20 . . .	59	68	78	88	64	74	84	95	21.10	29
27 . . .	60	69	80	90	65	75	86	97	22.60	30
September 3 . . .	60	69	80	90	65	75	86	97	22.60	31 $\frac{1}{2}$
10 . . .	60	69	80	90	65	75	86	97	22.80	32 $\frac{1}{2}$
17 . . .	60	69	80	90	65	75	86	95	21.25	30
24 . . .	60	69	80	86	65	75	86	95	20.85	29
30 . . .	60	69	80	90	65	75	86	100	21.80	30
October 1 . . .	60	69	80	90	65	75	86	100	21.80	30
8 . . .	60	69	80	90	65	75	86	100	21.75	29
15 . . .	60	69	80	90	65	75	86	100	21.50	28 $\frac{1}{2}$
22 . . .	60	68	80	90	65	74	86	100	20.00	27 $\frac{1}{2}$
29 . . .	60	68	80	90	65	74	86	100	20.70	28
November 5 . . .	60	68	80	90	65	74	86	100	21.25	28
12 . . .	60	66	78	88	65	72	84	98	20.30	27
19 . . .	60	65	75	85	65	70	82	95	19.80	26 $\frac{1}{2}$
26 . . .	60	65	75	85	65	70	82	95	19.75	26 $\frac{1}{2}$
December 3 . . .	60	65	75	85	65	70	82	95	19.95	26 $\frac{1}{2}$
10 . . .	60	65	75	85	65	70	82	95	19.25	25 $\frac{1}{2}$
17 . . .	60	65	75	88	65	70	82	100	19.45	25 $\frac{1}{2}$
23 . . .	60	65	75	88	65	70	82	100	19.75	26 $\frac{1}{2}$
31 . . .	60	65	75	88	65	70	82	100	20.10	26 $\frac{1}{2}$

<sup>1</sup> New Bedford basis.

# Prices of Staple Cotton Yarns in the United States during the Year 1927

[Prices are cents per pound]

Source: Daily News Record

DATE		16s Single Southern Carded Frame Warps	16/2 Southern Carded Skeins	40/2 Southern Carded Warps	36s Northern Mule Spun Combed Peeler Cones
January	4 . .	26	25½-26	40	50
	15 . .	27	26½-27	41	50
	25 . .	27 -27½	27 -27½	41 -42	50
February	1 . .	27 -27½	27 -27½	41 -42	50
	7 . .	27½-28	27½-28	41½-42	50
	28 . .	27½-28	27½-28	42½-43	50
March	3 . .	27½-28	27½-28	42½-43	50
	14 . .	27½-28	27½-28	42½-43	50
	31 . .	27½-28	27½-28	42½-43	50
April	5 . .	27½-28	27½	43	50
	18 . .	27 -27½	27	42	50
	30 . .	27	26½	42	49
May	6 . .	27½	27	43	52
	11 . .	28	27½	44	52
	21 . .	28	27 -27½	44	52
	25 . .	29	28½	45	52
June	4 . .	29½	29 -29½	45	56-58
	20 . .	29½	29½	46	56-58
	27 . .	29	29	46	56-58
July	2 . .	29	29	46	55
	12 . .	29½	29½	46	55
	20 . .	30½	30	46 -47	55
	30 . .	32	31 -31½	47 -48½	57
August	1 . .	32	31½-32	47 -48½	57
	23 . .	35½	35	51	58
	29 . .	37	36½	52½	60
September	9 . .	39½	39	55	63
	15 . .	38	37½	54	63
	22 . .	37½	37	54	63
October	4 . .	37½	37	54	63
	24 . .	36 -36½	37 -37½	51 -52	63
	31 . .	36½	36½	52	61
November	4 . .	36½	36½	52	61
	17 . .	34½	35	49	61
	30 . .	34½	35	49	61
December	1 . .	34½	35	49	61
	9 . .	34	34	49	60
	23 . .	33½	33½	49	60
	31 . .	34½	36½	49	60

# **Prices of Gray Cloths and Spot Cotton, Week by Week, during 1927**

[Prices are cents per yard]

Source: Daily News Record

DATE		64 x 60 27-Inch 7.60 Yards.	68 x 72 33-Inch 4.75 Yards.	48 x 48 37-Inch 4.00 Yards.	48 x 40 36-Inch 3.20 Yards	64 x 104 39-Inch 4.20 Sateen.	Cotton Mid-up Spot, N. Y.
January	7	4.60	7.38	6.25	5.25	11.00	12.97
	14	4.63	7.54	6.85	5.29	11.13	13.37
	21	4.73	7.71	7.13	5.38	11.25	13.59
	28	4.75	7.75	7.13	5.38	11.25	13.62
February	4	4.75	7.69	7.25	5.50	11.25	13.73
	11	4.75	7.65	7.25	5.50	11.25	14.15
	18	4.75	7.70	7.25	5.50	11.25	14.13
	25	4.75	7.63	7.25	5.50	11.25	14.17
March	4	4.81	7.80	7.31	5.56	11.30	14.60
	11	4.88	7.88	7.38	5.63	11.38	14.34
	18	4.88	7.88	7.31	5.63	11.38	14.07
	25	4.88	7.87	7.31	5.63	11.37	14.26
April	1	4.88	7.87	7.25	5.63	11.36	14.43
	8	4.88	7.87	7.25	5.63	11.36	14.38
	15	4.88	7.87	7.25	5.50	11.35	14.47
	22	4.88	7.88	7.25	5.50	11.35	14.88
	29	4.88	7.94	7.25	5.56	11.35	15.28
May	6	4.98	8.00	7.44	5.69	11.35	15.71
	13	5.00	8.13	7.50	5.75	11.35	15.76
	20	5.13	8.13	7.50	5.75	11.35	15.88
	27	5.25	8.15	7.69	5.88	11.35	16.53
June	3	5.30	8.37	7.88	5.90	11.50	16.96
	10	5.50	8.38	8.00	6.00	11.50	16.71
	17	5.50	8.41	8.00	6.00	11.50	16.84
	24	5.50	8.63	8.00	6.00	11.50	16.90
July	1	5.50	8.63	8.00	6.00	11.50	16.96
	8	5.50	8.63	8.00	6.00	11.50	17.12
	15	5.52	8.63	8.00	6.00	11.50	17.70
	22	5.63	8.75	8.21	6.20	11.50	18.33
	29	5.68	8.88	8.42	6.41	11.50	18.77
August	5	5.75	8.75	8.50	6.50	11.50	17.66
	12	5.94	9.13	8.85	6.60	11.63	19.23
	19	6.00	9.25	9.00	6.96	11.63	19.78
	26	6.17	9.56	9.31	7.35	11.75	21.45
September	2	6.42	9.96	9.83	7.71	12.25	22.76
	9	6.56	10.25	10.13	7.88	12.50	23.11
	16	6.54	10.13	10.04	7.88	12.75	22.01
	23	6.44	9.90	9.67	7.60	12.50	20.83
	30	6.38	9.77	9.50	7.50	12.50	21.64
October	7	6.38	9.75	9.50	7.50	12.50	21.39
	14	6.33	9.65	9.40	7.40	12.50	21.14
	21	6.24	9.52	9.20	7.31	12.30	20.82
	28	6.25	9.40	9.00	7.08	12.30	20.63
November	4	6.13	9.46	9.00	7.00	12.25	20.95
	11	6.04	9.35	8.95	6.98	12.25	20.57
	18	6.00	9.15	8.75	6.77	12.25	20.03
	25	5.90	9.02	8.63	6.75	12.25	19.98
December	2	5.75	8.81	8.50	6.56	12.00	19.58
	9	5.75	8.81	8.25	6.54	12.00	19.59
	16	5.63	8.77	8.13	6.46	12.00	19.03
	23	5.67	8.98	8.23	6.67	12.00	19.62
	30	5.75	9.13	8.31	6.75	12.00	20.09

**Cotton Gray Goods Prices, December 31, 1927**

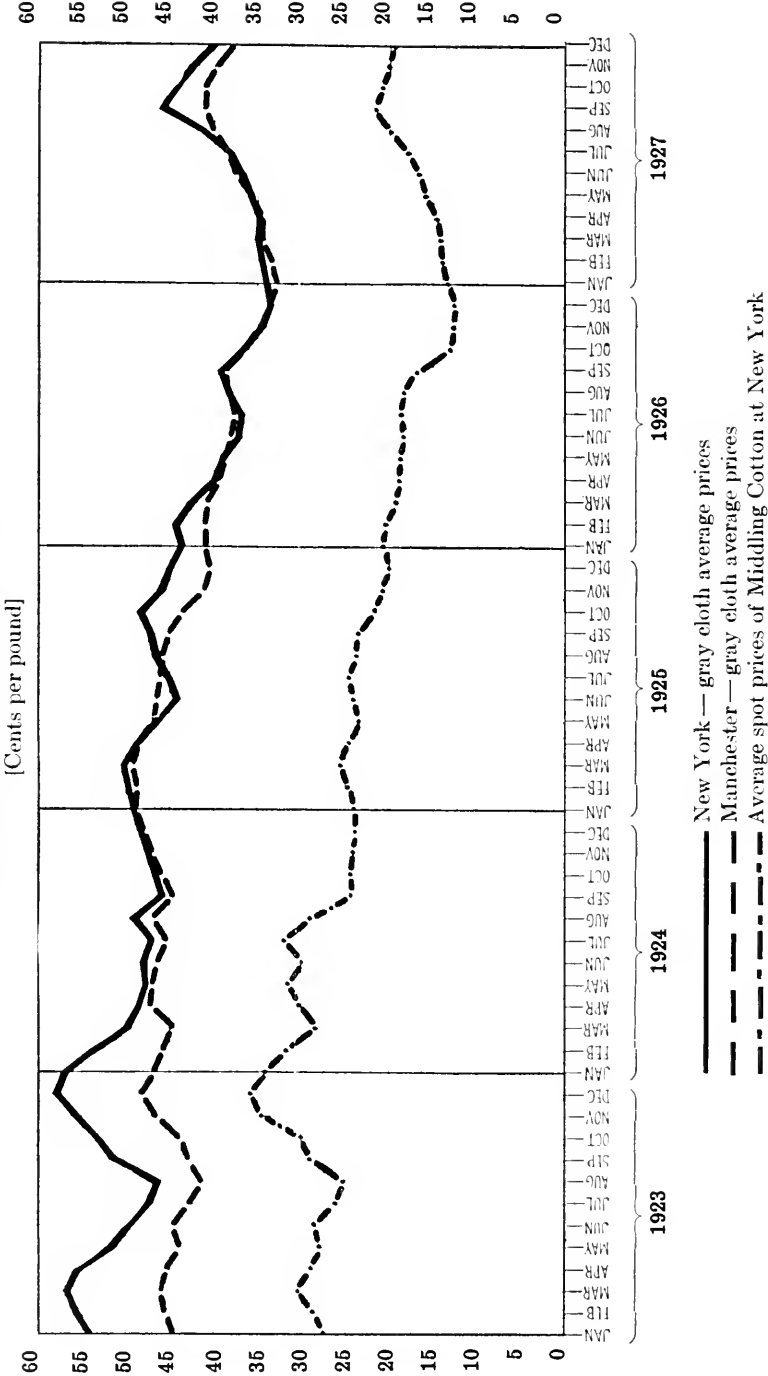
[Inventory Basis]

Source: Daily News Record

	Construction	Width	Yards per Pound	Cents per Yard
Print cloth . . . . .	64 x 60	27-inch	7.60	5 $\frac{3}{4}$
Print cloth . . . . .	56 x 44	25-inch	10.55	4 $\frac{1}{2}$
Print cloth . . . . .	64 x 60	38 $\frac{1}{2}$ -inch	5.35	8 $\frac{1}{4}$
Print cloth . . . . .	80 x 80	39-inch	4.00	11
Tobacco cloth . . . . .	48 x 44	36-inch	7.75	6 $\frac{1}{4}$
Tobacco cloth . . . . .	44 x 36	36-inch	9.20	5 $\frac{1}{4}$
Sheeting . . . . .	56 x 60	36-inch	4.00	9 $\frac{5}{8}$
Sheeting . . . . .	48 x 40	36-inch	5.50	6 $\frac{1}{2}$
Sheeting . . . . .	48 x 48	37-inch	4.00	8 $\frac{3}{4}$
Sheeting . . . . .	48 x 48	40-inch	2.50	13 $\frac{1}{4}$
Sheeting . . . . .	48 x 48	40-inch	2.85	11 $\frac{5}{8}$
Drill . . . . .	—	30-inch	2.50	14
Drill . . . . .	—	37-inch	3.95	8 $\frac{1}{2}$
Jean . . . . .	84 x 56	30-inch	4.00	10
Three-leaf twill . . . . .	64 x 64	39-inch	5.10	8 $\frac{1}{2}$
Three-leaf twill . . . . .	68 x 76	39-inch	4.50	9 $\frac{5}{8}$
Albert (carded) . . . . .	64 x 80	35-inch	5.10	10 $\frac{3}{4}$
Filling sateen . . . . .	64 x 112	39-inch	4.00	12 $\frac{3}{4}$
Domestic broadcloth . . . . .	144 x 76	37-inch	4.40	38 $\frac{1}{2}$
Domestic broadcloth (carded) . . . . .	112 x 60	37 $\frac{1}{2}$ -inch	4.40	12 $\frac{1}{2}$
Lawn (carded) . . . . .	72 x 60	36-inch	10.00	8 $\frac{1}{4}$
Lawn (carded) . . . . .	88 x 80	40-inch	6.00	13 $\frac{1}{2}$
Lawn (combed) . . . . .	80 x 80	40-inch	9.00	13 $\frac{1}{4}$
Lawn (combed) . . . . .	84 x 80	40-inch	10.50	16
Voile (slack twist) . . . . .	60 x 52	40-inch	—	9 $\frac{1}{2}$
Voile (super hard twist) . . . . .	60 x 56	40-inch	—	10
Poplin (carded) . . . . .	100 x 44	37 $\frac{1}{2}$ -inch	3.90	15 $\frac{1}{2}$
Organdy . . . . .	72 x 64	40-inch	13.00	13 $\frac{1}{4}$
Pongee . . . . .	72 x 100	34-inch	7.00	12
Osnaburg (p. w.) . . . . .	—	40-inch	7 oz.	13

17 $\frac{1}{4}$ -ounce square woven tire fabrics:	Cents per Pound
Carded Peeler . . . . .	43 $\frac{1}{2}$
Cord tire fabrics:	
Carded Egyptian (uppers) . . . . .	54
Carded peeler . . . . .	45
Print cloth yarn doobby fancies . . . . .	48

International Cotton Gray Cloth Prices





## International Comparative Gray Cloth Prices

[Cents per pound at current exchange]

Source: United States Department of Commerce

WEEK ENDED		NEW YORK				MANCHESTER				OSAKA			
		1924	1925	1926	1927	1924	1925	1926	1927	1924	1925	1926	1927
January	8	57.47	48.92	43.61	33.67	47.44	49.06	41.21	32.74	46.00	-	-	-
	15	57.71	49.21	43.60	33.45	47.10	49.04	41.26	32.87	45.41	46.74	43.56	31.45
	22	56.83	49.43	43.82	34.22	46.28	48.98	41.32	33.15	45.02	46.64	43.20	31.98
	29	55.36	48.98	43.94	34.29	45.61	48.69	41.33	33.04	45.29	46.58	42.85	31.93
February	5	54.83	48.98	43.94	34.54	46.31	48.87	41.34	32.94	45.90	44.97	42.68	31.90
	12	54.32	49.52	44.43	34.46	46.70	48.74	41.33	33.16	46.77	44.88	42.38	33.82
	19	53.66	49.59	44.45	34.69	46.24	48.69	40.84	33.54	46.34	45.40	41.83	33.84
	26	51.62	50.06	44.53	34.29	44.30	48.60	40.84	34.18	45.13	44.95	43.17	35.45
March	5	50.75	50.04	43.78	34.44	44.86	49.07	41.18	34.45	44.76	45.24	40.82	35.32
	12	50.41	50.50	43.23	35.26	44.17	49.26	40.90	34.77	43.86	44.35	39.98	35.96
	19	50.01	50.28	41.33	35.09	44.54	49.21	40.80	34.47	42.82	45.20	39.45	35.55
	26	49.49	49.62	41.80	35.09	45.25	49.63	40.41	34.48	42.64	45.01	39.13	34.87
April	2	47.84	48.87	40.49	35.16	44.74	48.83	40.27	34.49	42.42	45.44	39.66	34.89
	9	47.06	49.07	40.32	34.94	45.65	48.59	39.08	34.49	42.52	44.25	40.43	34.41
	16	49.58	48.78	39.75	34.85	46.97	48.54	38.82	34.48	42.81	42.30	39.99	33.65
	23	49.35	48.24	39.31	34.85	48.27	48.31	38.83	34.49	41.78	43.56	39.96	32.99
	30	48.13	48.24	40.53	34.95	48.18	47.90	38.59	35.00	41.43	41.98	39.56	32.23
May	7	48.18	47.26	38.91	35.37	47.64	47.33	-	35.25	42.14	43.00	38.85	33.71
	14	47.63	46.27	38.77	35.62	46.95	46.15	-	35.19	41.85	41.38	38.11	35.10
	21	47.33	45.25	38.69	35.76	47.04	46.46	38.74	36.09	42.29	41.01	38.74	35.15
	28	47.40	44.93	38.29	35.92	46.99	46.57	38.73	36.74	41.34	41.53	37.85	34.33
June	4	48.14	44.54	37.62	36.66	46.77	46.76	38.78	37.51	41.51	41.77	38.38	35.00
	11	48.33	44.50	37.65	36.88	46.50	46.39	38.79	37.50	41.45	42.31	38.74	35.19
	18	48.26	44.21	37.16	36.94	45.85	46.63	37.67	37.50	41.63	42.81	38.39	34.93
	25	47.82	44.39	36.23	37.18	45.89	46.37	37.58	37.49	41.51	43.59	38.04	34.32
July	2	47.94	44.98	36.21	37.18	45.51	46.38	37.58	37.13	41.37	43.38	38.56	34.03
	9	47.16	44.98	36.15	37.53	44.77	45.75	37.09	37.87	41.55	44.91	39.29	-
	16	46.89	45.35	36.78	37.53	44.45	46.53	37.70	38.60	41.34	45.54	39.44	-
	23	46.70	45.42	37.47	38.47	45.23	45.99	37.61	38.83	41.51	44.21	40.32	34.21
	30	47.80	46.85	37.74	39.45	46.45	46.47	38.23	39.36	41.91	44.28	39.93	34.37
August	6	50.29	46.63	38.31	39.66	48.07	46.19	38.17	39.06	42.78	44.34	40.27	35.04
	13	49.99	46.63	38.32	40.97	47.72	45.91	37.84	40.66	43.81	44.81	40.03	34.76
	20	49.61	47.02	38.15	41.37	47.84	45.83	38.43	40.01	44.20	44.66	39.30	35.16
	27	48.72	46.44	38.56	43.09	46.19	45.52	38.98	40.87	43.83	44.69	38.45	35.84
September	4	47.59	45.88	39.23	45.49	45.30	44.49	38.94	42.02	44.05	44.10	38.44	35.46
	11	46.96	46.18	39.82	45.76	45.33	44.46	38.96	42.01	44.08	43.77	37.83	36.72
	18	45.86	47.82	39.43	46.87	44.57	45.54	38.88	41.36	43.84	44.29	36.98	37.31
	25	44.48	48.79	39.09	46.01	44.15	45.51	38.36	40.65	43.23	44.55	36.35	36.90
October	1	45.79	49.16	37.67	45.09	44.00	44.81	37.66	41.34	43.43	43.95	34.95	36.07
	8	47.23	49.08	37.00	44.97	45.70	44.30	36.63	41.30	43.96	43.97	34.93	36.00
	15	47.65	48.81	35.76	45.05	46.31	42.92	36.12	40.95	43.04	43.56	33.15	36.01
	22	45.76	47.92	35.47	43.94	45.94	42.92	35.62	41.03	43.12	43.19	33.07	36.32
	29	45.63	47.05	34.49	43.16	45.55	41.92	35.00	40.60	43.72	42.72	31.60	35.98
November	5	45.83	46.05	34.35	43.14	46.26	41.12	35.00	40.55	43.99	41.78	30.28	35.38
	12	45.98	45.71	34.24	42.94	47.01	41.05	35.00	40.47	44.15	42.53	30.32	35.27
	19	47.60	45.76	34.00	42.06	47.58	41.08	35.03	39.40	46.22	42.17	30.05	34.84
	26	48.48	45.74	34.12	41.34	47.62	41.15	34.31	39.15	46.34	42.68	30.62	34.54
December	3	48.74	45.87	34.07	40.82	47.85	40.85	34.22	37.17	47.34	42.21	31.24	34.32
	10	48.17	45.36	33.59	40.06	47.55	40.68	33.60	37.98	46.70	41.66	30.29	34.25
	17	47.88	44.82	33.51	39.79	48.11	39.89	33.61	37.48	46.79	40.61	30.38	33.86
	24	47.88	43.98	33.44	40.15	47.96	39.89	33.46	37.60	46.61	39.94	30.45	-
	31	48.62	43.98	33.52	40.48	48.34	39.91	32.94	37.60	-	40.86	30.69	-
Annual average		49.01	47.18	38.59	38.67	46.30	45.83	38.07	37.36	43.68	43.61	37.51	34.69

¹ Prices not received.

# Prices of Staple Cotton Cloths in the United States 1916 to 1927, inclusive

[Prices are per linear yard]

Source: Daily News Record

DATE	Print Cloth 38½", 64 x 60 5.35 Yards per Pound	Brown Sheeting 36", 56 x 60 4 Yards per Pound	Fine Lawn 40", 88 x 80 8.50 Yards per Pound
January 1, 1916	\$0 04 $\frac{3}{4}$	\$0 06	\$0 08
April 1, 1916	05 $\frac{5}{8}$	06 $\frac{1}{4}$ to 06 $\frac{3}{8}$	09 $\frac{1}{2}$
July 1, 1916	05 $\frac{1}{2}$	06 $\frac{5}{8}$ to 06 $\frac{3}{4}$	09 $\frac{3}{4}$
October 1, 1916	06 $\frac{1}{2}$	08	11
January 1, 1917	07 $\frac{3}{8}$	09 $\frac{3}{4}$	12
April 1, 1917	08 $\frac{1}{4}$	09 $\frac{1}{2}$ to 09 $\frac{3}{4}$	11 $\frac{1}{2}$
July 1, 1917	10	13	12 $\frac{3}{4}$
October 1, 1917	09 $\frac{3}{4}$	12 $\frac{1}{2}$ to 12 $\frac{3}{4}$	12
January 1, 1918	12	15 $\frac{1}{4}$	13
April 1, 1918	17 $\frac{1}{2}$	21	19 $\frac{1}{2}$
July 1, 1918	18 $\frac{1}{2}$	23	23 $\frac{1}{2}$
October 1, 1918	09 $\frac{3}{4}$	17 $\frac{1}{2}$	25 $\frac{1}{2}$
January 1, 1919	12 $\frac{1}{4}$	16	19 $\frac{1}{2}$
April 1, 1919	09 $\frac{1}{4}$	12	16
July 1, 1919	17	18 $\frac{1}{2}$	26 $\frac{1}{2}$
October 1, 1919	17	19 $\frac{1}{2}$ to 20	29
January 1, 1920	20 $\frac{1}{4}$	25	40
April 1, 1920	23	26 $\frac{1}{2}$ to 27	40
July 1, 1920	20	22 $\frac{1}{2}$	29
October 1, 1920	12 $\frac{1}{4}$	15 $\frac{1}{2}$	24 $\frac{1}{2}$
January 1, 1921	08	09 $\frac{1}{4}$	15 $\frac{1}{2}$
April 1, 1921	06 $\frac{5}{8}$	08	14 $\frac{1}{2}$
July 1, 1921	06 $\frac{3}{4}$	07 $\frac{1}{4}$	13 $\frac{1}{2}$
October 1, 1921	09 $\frac{1}{2}$	11 $\frac{1}{2}$	16 $\frac{1}{2}$
January 1, 1922	09	09 $\frac{1}{4}$	15 $\frac{1}{2}$
April 1, 1922	07 $\frac{3}{8}$	09	14 $\frac{1}{2}$
July 1, 1922	08 $\frac{1}{2}$	10 $\frac{1}{4}$	15 $\frac{1}{2}$
October 1, 1922	09	10 $\frac{3}{8}$ to 10 $\frac{3}{4}$	15
January 1, 1923	10 $\frac{3}{8}$	12 to 12 $\frac{1}{4}$	15 $\frac{1}{2}$
April 1, 1923	10 $\frac{1}{2}$	12 $\frac{3}{4}$	16
July 1, 1923	09 $\frac{1}{4}$	11 $\frac{1}{4}$	15 $\frac{1}{4}$
October 1, 1923	09 $\frac{1}{4}$	12 $\frac{1}{4}$	15 $\frac{1}{2}$
January 1, 1924	11	13 $\frac{1}{2}$	15 $\frac{3}{4}$
April 1, 1924	09 $\frac{1}{4}$	11	14 $\frac{3}{4}$
July 1, 1924	08 $\frac{3}{4}$	10 $\frac{3}{4}$	14 $\frac{1}{2}$
October 1, 1924	09	11	14 $\frac{1}{2}$
January 1, 1925	09 $\frac{1}{4}$	10 $\frac{7}{8}$	14 $\frac{1}{4}$
April 1, 1925	09	10 $\frac{3}{8}$	14 $\frac{1}{4}$
July 1, 1925	09 $\frac{1}{4}$	09 $\frac{3}{4}$	13 $\frac{3}{4}$
October 1, 1925	09 $\frac{1}{4}$	11 $\frac{1}{8}$	14
January 1, 1926	08 $\frac{3}{4}$	09 $\frac{3}{4}$	13 $\frac{3}{4}$
April 1, 1926	07 $\frac{1}{4}$	09 $\frac{1}{2}$	13 $\frac{1}{2}$
July 1, 1926	07	08 $\frac{1}{2}$	13 $\frac{1}{4}$
October 1, 1926	07 $\frac{3}{8}$	08 $\frac{1}{8}$	12 $\frac{3}{4}$
January 1, 1927	06	07 $\frac{1}{4}$	12 $\frac{1}{4}$
April 1, 1927	06 $\frac{3}{8}$	08	12 $\frac{1}{4}$
July 1, 1927	07 $\frac{1}{4}$	08 $\frac{1}{2}$	12
October 1, 1927	08 $\frac{1}{4}$	10 $\frac{1}{4}$	13
January 1, 1928	08	09 $\frac{5}{8}$	12 $\frac{3}{4}$

## Average Yearly Print Cloth Prices

Source: Daily News Record

YEAR	25-Inch 56 x 44 10.55 Yard	27-Inch 64 x 60 7.60 Yard	38½-Inch 44 x 40 8.20 Yard	38½-Inch 60 x 48 6.25 Yard	38½-Inch 64 x 60 5.35 Yard	39-Inch 68 x 72 4.75 Yard	39-Inch 72 x 76 4.25 Yard	39-Inch 80 x 80 4.00 Yard	Average Cotton Goods Prices <sup>1</sup>	New York Middling Spot Cotton
Pre-war average (1911-12-13)	2.492	3.308	3.237	4.243	4.852	5.470	6.158	6.942	8.054	12.55
1914 . . . . .	2.299	3.071	3.146	3.774	4.465	5.111	5.769	6.403	7.851	11.81
1915 . . . . .	2.152	2.900	2.800	3.544	4.050	4.673	5.359	5.989	7.338	10.08
1916 . . . . .	3.059	4.118	4.178	5.200	6.031	6.781	7.370	8.011	9.860	14.45
1917 . . . . .	5.113	6.656	6.307	8.046	9.399	10.701	11.853	12.795	15.074	23.80
1918 <sup>2</sup> . . . . .	8.232	11.513	10.300	14.029	15.152	18.338	20.332	20.930	23.533	31.59
1919 . . . . .	8.010	9.869	9.300	12.650	13.700	16.695	19.258	21.670	21.912	32.37
1920 . . . . .	9.848	12.336	12.100	15.848	17.280	18.788	21.649	23.915	26.000	33.79
1921 . . . . .	3.953	5.079	4.855	6.565	7.710	8.869	9.635	11.387	13.018	15.05
1922 . . . . .	5.076	6.823	6.276	7.962	8.943	10.008	11.622	12.605	15.090	22.44
1923 . . . . .	5.426	7.461	7.052	8.835	10.198	11.721	12.646	13.608	17.145	29.30
1924 . . . . .	4.887	6.780	6.227	7.875	9.063	10.382	11.837	13.279	16.084	28.75
1925 . . . . .	4.786	6.535	6.183	7.981	9.222	10.541	11.802	12.700	15.097	23.43
1926 . . . . .	3.845	5.196	5.016	6.398	7.491	8.547	9.587	10.593	12.858	17.50
1927 . . . . .	4.115	5.490	5.053	6.533	7.586	8.616	9.692	10.459	12.663	17.55

<sup>1</sup> This average includes, among others, eight print cloths, five sheetings, four drills, four standard colored goods, four bleached goods and two ducks.<sup>2</sup> In June, 1918, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased and there was practically no market. This may explain some figures which would otherwise seem irregular.

## Average Yearly Standard Colored Goods and Bleached Goods Prices

Source: Daily News Record

CLOTHS	Pre-war Average (1911-12-13)	1913	1919	1920	1921	1922	1923	1924	1925	1926	1927
Standard 2.20 denim . . .	11.485	34.500	30.062	38.250	15.666	19.486	23.826	21.456	18.912	15.425	16.115
Standard fine chambray, about 5.00 yard . . . . .	6.625	19.875	20.500	34.620	12.375	14.281	14.230	12.466	12.057	9.925	10.344
Standard 3.80 work shirt cham- bray . . . . .	6.916	22.650	17.444	25.200	11.156	13.929	15.403	14.014	13.465	11.613	11.426
27-inch Eastern Standard staple gingham . . . . .	6.194	17.694	18.178	19.305	12.329	13.820	14.395	12.207	11.146	8.937	9.486
Standard 8-ounce ticking . . .	13.138	39.034	33.400	28.030	19.250	23.156	26.740	25.866	23.658	19.236	20.016
Standard branded bleached mus- lin, Class A . . . . .	8.432	24.000	25.045	33.500	16.684	17.278	18.497	18.337	17.996	16.611	16.123
Standard branded bleached mus- lin, Class B . . . . .	7.235	20.570	21.300	21.300	13.330	13.812	15.014	14.805	14.206	12.507	11.849
10/4 bleached wide sheeting, Class A . . . . .	25.857	64.205	67.819	71.042	50.730	52.091	57.484	56.397	52.277	48.335	45.841
10/4 bleached wide sheeting, Class B . . . . .	22.308	58.290	60.594	64.200	46.215	47.104	51.346	50.295	46.708	41.075	38.979

<sup>1</sup> In June, 1918, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased, and there was practically no market. This may explain some figures which would otherwise seem irregular.

# Cotton Finishing Industry <sup>1</sup>

Source: National Association of Finishers of Cotton Fabrics

	Billings (Thousands of Yards) <sup>2</sup>	Orders, Grey Yardage (Thousands of Yards)	Shipments (Cases)	Stocks (Cases)	Activity (Per Cent of Capacity)
1922 monthly average . . . . .	94,016	95,509	49,102	44,937	66
1923 monthly average . . . . .	95,098	91,504	48,116	46,166	68
1924 monthly average . . . . .	77,650	76,105	41,863	43,139	58
1925 monthly average . . . . .	78,756	76,558	43,691	39,640	60
1926 monthly average . . . . .	81,399	78,676	47,458	39,673	64
1927 monthly average . . . . .	84,457	81,710	49,398	38,243	70
<b>1927</b>					
January . . . . .	75,510	88,603	48,936	36,581	69
February . . . . .	83,554	91,402	48,968	34,971	82
March . . . . .	108,067	102,326	59,519	36,178	82
April . . . . .	91,675	85,323	51,869	38,275	78
May . . . . .	85,054	77,170	49,711	37,340	72
June . . . . .	87,006	77,743	48,133	39,535	66
July . . . . .	72,334	71,959	43,154	40,390	63
August . . . . .	84,780	82,407	52,399	37,092	68
September . . . . .	84,899	87,386	52,316	37,053	72
October . . . . .	85,490	77,296	50,175	39,094	73
November . . . . .	77,239	69,072	44,671	41,350	61
December . . . . .	77,885	69,836	43,287	41,059	59
<b>1926</b>					
January . . . . .	78,170	87,188	46,679	41,111	62
February . . . . .	82,370	85,055	46,922	41,006	71
March . . . . .	98,321	97,436	54,452	41,329	74
April . . . . .	90,938	79,606	49,301	42,350	67
May . . . . .	79,164	69,348	45,715	41,352	61
June . . . . .	78,161	65,072	45,272	41,494	55
July . . . . .	65,714	67,272	43,724	40,446	50
August . . . . .	69,554	75,180	44,336	38,449	59
September . . . . .	79,223	84,438	49,312	36,868	66
October . . . . .	88,295	79,350	51,010	36,161	70
November . . . . .	79,480	76,483	45,941	37,113	63
December . . . . .	87,401	77,686	46,827	38,398	66

<sup>1</sup> Figures cover approximately 70 per cent of white goods, 55 per cent of dyed goods, and 25 per cent of printed goods finished outside of mills.

<sup>2</sup> Goods are billed as completed, hence billings approximate production.

# Activity of the American Cotton Industry

Source: United States Bureau of the Census

	Total Spindle Hours (Millions)	Hours per Spindle in Place	Hours per Spindle in Place relative to 1922	Per Cent of Capacity
1923 monthly average . . . . .	8,288	222	106	98.8
1924 monthly average . . . . .	6,696	177	85	78.6
1925 monthly average . . . . .	7,877	208	100	92.7
1926 monthly average . . . . .	8,083	215	103	95.4
1927 monthly average . . . . .	8,708	236	113	104.9
<b>1925</b>				
January . . . . .	8,493	224	107	96.4
February . . . . .	7,868	208	100	100.0
March . . . . .	8,599	227	109	99.6
April . . . . .	8,518	225	108	100.0
May . . . . .	7,930	210	100	93.6
June . . . . .	7,690	203	97	89.0
July . . . . .	7,298	192	92	84.6
August . . . . .	6,954	184	88	80.5
September . . . . .	7,102	188	89	83.8
October . . . . .	7,962	210	100	89.4
November . . . . .	7,834	207	99	96.0
December . . . . .	8,272	218	104	99.5
<b>1926</b>				
January . . . . .	8,359	221	106	98.7
February . . . . .	8,094	214	103	102.8
March . . . . .	9,163	242	116	102.1
April . . . . .	8,348	221	106	98.2
May . . . . .	7,506	199	95	88.9
June . . . . .	7,606	202	97	88.4
July . . . . .	6,770	180	86	78.9
August . . . . .	7,489	200	96	87.4
September . . . . .	8,248	220	105	98.5
October . . . . .	8,370	224	107	98.9
November . . . . .	8,480	227	109	101.2
December . . . . .	8,563	229	110	100.3
<b>1927</b>				
January . . . . .	8,558	229	110	102.3
February . . . . .	8,266	222	107	106.8
March . . . . .	9,629	260	125	109.7
April . . . . .	8,804	238	110	105.8
May . . . . .	9,002	244	117	109.0
June . . . . .	9,192	249	120	109.2
July . . . . .	8,043	219	105	99.1
August . . . . .	8,973	245	117	103.5
September . . . . .	8,761	240	115	107.0
October . . . . .	8,705	238	114	105.3
November . . . . .	8,680	238	114	107.2
December . . . . .	7,859	215	103	94.3

# Changes in Cost of Living in the United States, 1917 to 1927

Source: United States Bureau of Labor Statistics

ITEMS OF EXPENDITURE	PER CENT OF INCREASE FROM 1913 (AVERAGE) TO —												
	Dec., 1917	Dec., 1918	June, 1919	Dec., 1919	June, 1920	Dec., 1920	May, 1921	Sept., 1921	Dec., 1921	June, 1922	Sept., 1922	Dec., 1922	Mar., 1923
Food	57.0	87.0	84.0	97.0	119.0	78.0	44.7	53.1	49.9	41.0	39.8	46.6	41.9
Clothing	49.1	105.3	114.5	168.7	187.5	158.5	122.6	92.1	84.4	72.3	71.3	71.5	74.4
Housing	1	9.2	14.2	25.3	34.9	51.1	59.0	60.0	61.4	60.9	61.1	61.9	62.4
Fuel and light	24.1	47.9	45.6	56.8	71.9	94.9	81.6	80.7	81.1	74.2	83.6	86.4	86.2
House-furnishing goods	50.6	113.6	125.1	163.5	192.7	185.4	147.7	124.7	118.0	102.9	102.9	108.2	117.6
Miscellaneous	40.5	65.8	73.2	90.2	101.4	108.2	108.8	107.8	106.8	101.5	101.1	100.5	100.3
All items	42.4	74.4	77.3	99.3	116.5	100.4	80.4	77.3	74.3	66.6	66.3	69.5	68.8

# Changes in Cost of Living in the United States, 1917 to 1927 — (Concluded)

Source: United States Bureau of Labor Statistics

ITEMS OF EXPENDITURE	PER CENT OF INCREASE FROM 1913 (AVERAGE) TO —												
	June, 1923	Sept., 1923	Dec., 1923	Mar., 1924	June, 1924	Sept., 1924	Dec., 1924	June, 1925	Dec., 1925	June, 1926	Dec., 1926	June, 1927	Dec., 1927
Food . . . . .	44.3	49.3	50.3	43.7	42.4	46.8	51.5	55.0	65.5	59.7	61.8	58.5	55.9
Clothing . . . . .	74.9	76.5	76.3	75.8	74.2	72.3	71.3	70.6	69.4	68.2	66.7	64.9	62.9
Housing . . . . .	63.4	64.4	66.5	67.0	68.0	68.0	68.2	67.4	67.1	65.4	64.2	62.1	60.2
Fuel and light . . . . .	80.6	81.3	84.0	82.2	77.3	79.1	80.5	76.7	86.9	80.5	88.3	80.8	83.2
House-furnishing goods . . . . .	122.2	122.4	122.4	121.3	116.0	114.9	116.0	114.3	114.3	110.4	107.7	105.2	104.6
Miscellaneous . . . . .	100.3	101.1	101.7	101.1	101.1	101.1	101.7	102.7	103.5	103.3	103.9	104.5	105.1
All items . . . . .	69.7	72.1	73.2	70.4	69.1	70.6	72.5	73.5	77.9	74.8	75.6	73.4	72.0



# Weekly Sales of Print Cloths at Fall River

[In thousands of pieces]

Source: J. M. Prendergast & Co.

		1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27
July	31	—	—	—	—	130	80	130
August	7	30	150	100	20	100	50	100
	14	40	150	70	80	60	50	130
	21	60	120	100	130	40	40	80
	28	20	200	200	350	30	40	90
September	4	30	250	300	160	25	40	100
	11	30	100	100	200	25	40	90
	18	130	70	300	190	30	100	80
	25	120	100	250	180	100	120	75
October	2	30	200	250	130	100	100	70
	9	20	100	200	60	60	60	50
	16	10	80	225	50	40	60	50
	23	10	60	250	100	60	40	50
	30	20	150	200	130	75	40	50
November	6	20	110	200	130	300	40	60
	13	10	80	180	300	70	50	50
	20	10	80	160	60	40	50	50
	27	10	70	100	100	40	60	40
December	4	20	100	90	180	30	40	50
	11	15	180	80	85	40	50	50
	18	20	180	150	50	30	40	40
	24	50	230	200	60	75	50	70
	31	50	180	175	50	40	40	75
January	8	100	150	175	50	70	40	80
	15	400	70	175	40	60	75	150
	22	250	75	300	50	70	90	175
	29	100	100	240	50	80	100	120
February	5	90	100	120	50	80	100	100
	12	120	120	120	80	80	70	75
	19	110	130	150	40	65	75	70
	26	60	230	225	50	75	60	80
March	5	60	150	250	80	70	50	90
	12	50	100	200	40	60	50	100
	19	60	70	150	70	40	60	80
	26	200	120	120	60	30	40	75
April	2	70	100	80	50	30	40	70
	9	60	90	70	120	25	40	75
	16	75	110	40	200	40	40	60
	23	90	300	40	50	30	30	70
	30	110	150	40	30	30	50	75
May	7	140	250	60	40	30	50	100
	14	180	225	40	40	30	75	100
	21	170	175	30	25	40	80	75
	28	80	150	30	25	30	75	100
June	4	100	100	50	50	30	75	90
	11	120	200	40	50	60	60	80
	18	70	200	100	70	75	50	75
	25	40	240	75	30	80	60	90
July	2	60	150	70	25	100	60	75
	9	80	120	50	25	100	75	60
	16	100	120	40	30	80	100	60
	23	120	200	25	60	75	110	70
	30	120	100	20	150	75	90	60

### Wage Rates paid by Cotton Mills of Lancashire, England, since 1853

The table below gives the wage rates paid under the standard lists of Lancashire, in terms of percentage of the basic list prices. Basic list prices are indicated by 100; rates 5 per cent above list are expressed by 105; rates 5 per cent below list are expressed by 95, etc.

END OF YEAR —	COTTON SPINNING		Cotton Weaving Blackburn <sup>1</sup> and Uniform Lists
	Bolton List	Oldham List	
1853 . . . . .	No list	No list	Blackburn list
1854-57 . . . . .	No list	No list	adopted +10
1858 . . . . .	List adopted	No list	100
1859 . . . . .	100	No list	100
1860 . . . . .	105	No list	100
1861-65 . . . . .	100	No list	105
1866 . . . . .	105	No list	100
1867 . . . . .	100	No list	100
1868 . . . . .	100	No list	List revised
1869 . . . . .	95	No list	100
1870 . . . . .	95	No list	95
1871 . . . . .	100	No list	100
1872-73 . . . . .	105	No list	100
1874 . . . . .	100	No list	100
1875 . . . . .	105	No list	100
1876 . . . . .	105	List adopted	100
1877 . . . . .	100	95	100
1878 . . . . .	100	85	90
1879 . . . . .	90	80	85
1880 . . . . .	95	85	85
1881-82 . . . . .	95	90	90
1883 . . . . .	95	90	85
1884 . . . . .	95	90	90
1885-87 . . . . .	90	85	90
1888-89 . . . . .	95	90	90
1890 . . . . .	100	90	90
1891 . . . . .	100	95	90
1892 . . . . .	100	95	Uniform list
1893-98 . . . . .	100	92.09	adopted -10
1899 . . . . .	100	95	90
1900-04 . . . . .	105	100	92.5
1905 . . . . .	105	100	92.5
1906 . . . . .	105	105	97.5
1907-08 . . . . .	110	110	100
1909-11 . . . . .	105	105	100
1912-14 . . . . .	105	105	105
1915 . . . . .	110	110	105
1916 . . . . .	115	115	110
1917 . . . . .	140	140	140
1918 . . . . .	215	215	215
1919 . . . . .	245	245	245
1920 . . . . .	315 <sup>2</sup>	315 <sup>2</sup>	315 <sup>3</sup>
1921 . . . . .	245	245	245
1922-27 . . . . .	195	195	195

<sup>1</sup> Blackburn list succeeded by Uniform list in 1892.

<sup>2</sup> Strippers and grinders, blowing-room operatives, and leading men in cotton rooms received in 1920 an additional 10 per cent on wages realized after the addition of the 70 per cent of the list.

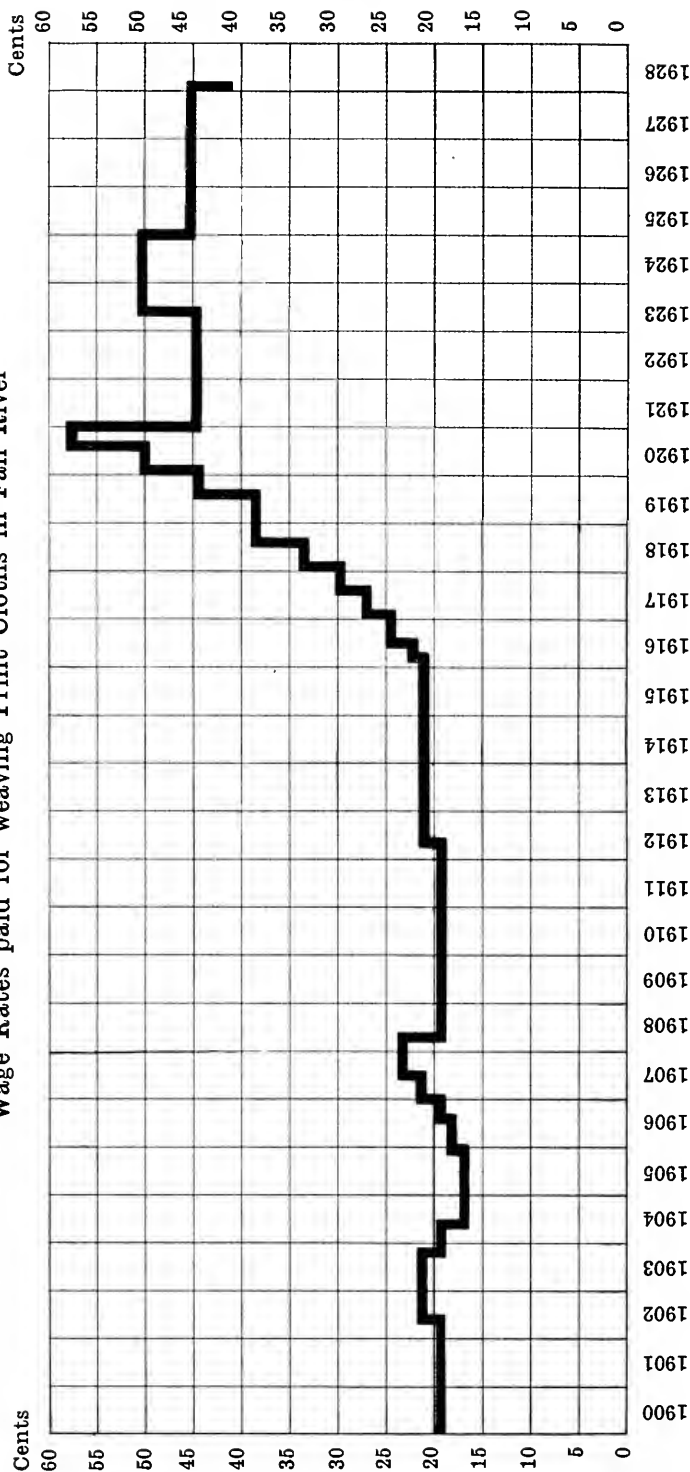
<sup>3</sup> Tapers, dry tapers, warp dressers, and loom overlookers received an advance in 1920 of only 55 per cent of list, instead of the 70 per cent which other operatives received. In 1921 these operatives were reduced only 55 per cent instead of the 70 per cent by which other workers were cut down.

General Wage Changes in New Bedford since 1870

PERIOD	Advance or Reduction from Previous Rate (Per Cent)	Percentage of January, 1870, Rate	Percentage of Pre-war Rate
January, 1870, to March, 1870 . . . . .	-	100.00	-
March, 1870, to December, 1873 . . . . .	+10	110.00	-
December, 1873, to December, 1875 . . . . .	-10	99.00	-
December, 1875, to August, 1878 . . . . .	-10	89.10	-
August, 1878, to January, 1880 . . . . .	-10	80.19	-
January, 1880, to April, 1880 . . . . .	+10	88.20	-
April, 1880, to April, 1884 . . . . .	+10	97.02	-
April, 1884, to April, 1885 . . . . .	-10	87.31	-
April, 1885, to April, 1886 . . . . .	-10	78.57	-
April, 1886, to April, 1888 . . . . .	+10	86.42	-
April, 1888, to August, 1892 . . . . .	+5	90.74	-
August, 1892, to December, 1892 . . . . .	+3	93.46	-
December, 1892, to September, 1893 . . . . .	+7	100.00	-
September, 1893, to August, 1894 . . . . .	-10@15	87.50	-
August, 1894, to April, 1895 . . . . .	-5	83.12	-
April, 1895, to January, 1898 . . . . .	+5	87.27	-
January, 1898, to April, 1899 . . . . .	-10	78.54	-
April, 1899, to December, 1899 . . . . .	+10	86.39	-
December, 1899, to April, 1902 . . . . .	+10	95.02	-
April, 1902, to December, 1903 . . . . .	+10	104.52	-
December, 1903, to July, 1906 . . . . .	-10 <sup>1</sup>	95.02	-
July, 1906, to December, 1906 . . . . .	+5	99.77	-
December, 1906, to May, 1907 . . . . .	+7½	107.25	-
May, 1907, to April, 1908 . . . . .	+10	117.97	-
April, 1908, to March, 1912 . . . . .	-10	106.17	-
March, 1912, to January, 1916 . . . . .	+10	116.78	100.00
January, 1916, to April, 1916 . . . . .	+5	122.61	105.00
April, 1916, to November, 1916 . . . . .	+10	134.87	115.50
November, 1916, to June, 1917 . . . . .	+10	148.35	127.05
June, 1917, to November, 1917 . . . . .	+10	163.18	139.76
November, 1917, to June, 1918 . . . . .	+10	179.49	153.74
June, 1918, to June, 1919 . . . . .	+17½	210.90	180.64
June, 1919, to December, 1919 . . . . .	+15	242.53	207.74
December, 1919, to June, 1920 . . . . .	+12½	272.84	233.71
June, 1920, to January, 1921 . . . . .	+15	313.76	268.77
January, 1921, to April, 1923 . . . . .	-22½	243.16	208.30
April, 1923, to January, 1925 . . . . .	+12½	273.56	234.34
January, 1925, to April, 1928 . . . . .	-10	246.21	210.91
April, 1928, to — . . . . .	-10	221.59	189.82

<sup>1</sup> Approximate reduction of 10 per cent to scale of December, 1899.

Wage Rates paid for weaving Print Cloths in Fall River



The above chart, based on the table at the top of the following page, shows the fluctuations in the amount paid by Fall River print cloth manufacturers to their weavers for weaving  $47\frac{1}{2}$  yards of 28", 64 x 64, 7-yard print cloths. Wage rates of other classes of operatives, per hour or per piece, fluctuated in about the same ratio as those of weavers during the period covered. Accordingly this chart may be taken as indicating the general changes in the hourly or piece wage rates of Fall River mill-workers.

# Wage Rates paid for weaving Print Cloths in Fall River

Prices paid for weaving 47½ yards of 28-inch, 64 x 64, 7-yard print cloth

PERIOD	Wage Rate	Advance or Reductions from Previous Rate (Per Cent)	Percentage of 1900 Rate	Percentage of Pre-war Rate
December, 1899, to March, 1902 .	\$0.1980	+10	100	—
March, 1902, to November, 1903 .	2178	+10	110	—
November, 1903, to July, 1904 .	1980	-9½	100	—
July, 1904, to October, 1905 .	1732	-12½	87½	—
October, 1905, to July, 1906 .	1861	+7½	94	—
July, 1906, to November, 1906 .	1980	+6½	100	—
November, 1906, to May, 1907 .	2178	+10	110	—
May, 1907, to May, 1908 .	2396	+10	121	—
May, 1908, to March, 1912 .	1966	-17½	99	—
March, 1912, to January, 1916 .	2163	+10	109	100.00
January, 1916, to May, 1916 .	2271	+5	115	105.00
May, 1916, to December, 1916 .	2498	+10	126	115.50
December, 1916, to June, 1917 .	2748	+10	139	127.05
June, 1917, to December, 1917 .	3023	+10	154	139.76
December, 1917, to June, 1918 .	3401	+12½	172	157.23
June, 1918, to June, 1919 .	3911	+15	198	180.81
June, 1919, to December, 1919 .	4498	+15	227	207.93
December, 1919, to June, 1920 .	5060	+12½	256	233.92
June, 1920, to January, 1921 .	5819	+15	293	269.01
January, 1921, to April, 1923 .	4510	-22½	228	208.48
April, 1923, to January, 1925 .	5074	+12½	257	234.54
January, 1925, to February, 1928	4567	-10	231	211.09
February, 1928, to — .	4108	-10	208	189.99

# Average Cash Dividends of New Bedford and Fall River Mills

Source: Sanford & Kelly of New Bedford and G. M. Haffards & Co. of Fall River

YEAR	New Bedford	Fall River
1912	4.40 per cent on \$37,126,300 capital	4.25 per cent on \$27,561,700 capital
1913	5.63 per cent on \$38,925,000 capital	6.87 per cent on \$30,179,100 capital
1914	4.76 per cent on \$39,225,000 capital	4.03 per cent on \$30,349,700 capital
1915	7.83 per cent on \$39,725,000 capital	3.77 per cent on \$30,349,700 capital
1916	7.33 per cent on \$40,675,000 capital	8.01 per cent on \$30,486,700 capital
1917	16.47 per cent on \$49,012,300 capital	13.08 per cent on \$33,111,700 capital
1918	12.66 per cent on \$50,656,300 capital	18.02 per cent on \$34,111,700 capital
1919	13.30 per cent on \$50,572,500 capital	14.46 per cent on \$34,111,700 capital
1920	26.17 per cent on \$50,966,500 capital	32.77 per cent on \$33,860,000 capital
1921	9.19 per cent on \$59,374,000 capital	8.01 per cent on \$38,610,000 capital
1922	9.72 per cent on \$61,735,200 capital	9.60 per cent on \$37,210,000 capital
1923	6.96 per cent on \$72,251,900 capital	7.81 per cent on \$44,666,700 capital
1924	5.13 per cent on \$73,251,900 capital	6.45 per cent on \$43,665,000 capital
1925	5.30 per cent on \$74,028,900 capital	5.03 per cent on \$43,585,000 capital
1926	4.00 per cent on \$72,698,700 capital	3.48 per cent on \$43,585,000 capital
1927	3.50 per cent on \$72,461,900 capital	3.51 per cent on \$41,660,000 capital

# Gross Manufacturing Margins on Staple Yarns and Cloths in the United States

[Cents per pound]

Source: Garside Cotton Service

		Average Margin on Four Yarns	Average Margin on Three Print Cloths	Average Margin on Three Sheetings	Average Margin on Two Ducks and Two Drills
August	2, 1924	9.24	17.52	10.86	9.97
September	6, 1924	10.34	18.58	12.69	14.60
October	4, 1924	10.01	18.27	12.02	13.18
November	1, 1924	12.07	18.34	13.60	14.92
December	6, 1924	12.08	20.92	14.09	16.10
January	3, 1925	10.45	20.96	13.03	14.41
February	7, 1925	8.93	20.60	12.66	14.11
March	7, 1925	7.82	19.49	10.83	12.12
April	4, 1925	8.93	19.34	11.65	13.61
May	2, 1925	6.44	18.58	10.51	13.38
June	6, 1925	5.84	16.25	8.09	12.00
July	4, 1925	5.72	16.26	7.49	10.07
August	1, 1925	6.12	17.04	7.64	11.17
September	5, 1925	8.27	20.60	11.45	13.95
October	3, 1925	10.55	22.20	13.62	13.99
November	7, 1925	10.54	21.69	14.45	15.66
December	4, 1925	10.54	21.48	13.87	14.82
January	1, 1926	9.24	19.67	12.46	14.48
February	5, 1926	9.21	19.84	12.27	13.43
March	5, 1926	9.77	20.70	14.78	14.00
April	2, 1926	8.25	17.23	12.89	13.23
May	7, 1926	7.70	16.42	12.29	12.62
June	4, 1926	6.58	15.19	11.32	11.13
July	2, 1926	5.64	13.26	10.61	10.94
August	6, 1926	7.36	16.72	12.46	11.13
September	3, 1926	8.74	17.60	13.52	11.31
October	1, 1926	11.22	20.08	16.70	15.28
November	5, 1926	10.70	19.37	15.39	15.24
December	3, 1926	10.42	19.55	13.74	14.27
January	7, 1927	8.49	18.88	12.51	13.00
February	4, 1927	8.74	18.74	12.75	12.37
March	4, 1927	7.91	18.13	12.46	11.94
April	1, 1927	8.06	18.19	12.43	12.00
May	6, 1927	6.28	16.97	10.67	10.48
June	3, 1927	6.93	17.21	10.53	10.67
July	1, 1927	7.22	17.96	11.09	10.75
August	5, 1927	8.98	18.68	12.72	10.98
September	2, 1927	7.22	18.23	12.45	10.43
October	7, 1927	8.98	19.10	13.70	12.73
November	4, 1927	8.26	18.35	12.73	11.63
December	2, 1927	8.14	16.91	11.94	11.46
January	6, 1928	8.25	17.93	11.66	10.48

These weekly average margins show the spread between the price of cotton after making an allowance for waste and the price of yarns and cloths.

# United States Exports of Cotton Machinery, 1927

Source: United States Department of Commerce

COUNTRY OF DESTINATION	Looms	Spinning and Twisting Machinery	Knitting Machinery	Other Cotton Machinery
Belgium . . . . .	—	\$3,835	\$35,748	—
France . . . . .	\$17,968	8,060	192,444	\$17,549
Germany . . . . .	20,041	191,555	76,066	9,938
Italy . . . . .	47,840	5,917	113,140	17,122
Netherlands . . . . .	2,050	—	3,923	—
Poland and Danzig . . . . .	8,892	46,776	7,710	110
Spain . . . . .	33,102	1,610	55,573	1,986
United Kingdom . . . . .	11,046	72,249	2,338,349	6,413
Canada . . . . .	314,790	89,843	835,943	307,526
Mexico . . . . .	18,964	25,127	248,065	86,714
Argentina . . . . .	—	875	452,379	7,687
Brazil . . . . .	—	1,190	193,524	2,496
Chile . . . . .	—	301	84,822	864
Colombia . . . . .	151	925	14,792	14,297
British India . . . . .	—	9,129	17,853	—
China . . . . .	173	5,207	35,258	14,706
Hongkong . . . . .	—	—	23,173	—
Japan . . . . .	12,677	20,538	45,210	14,084
Australia . . . . .	—	2,249	285,776	420
Total . . . . .	\$487,694	\$485,396	\$5,058,748	\$501,912

**Calculated Total World's Cotton Spinning Spindles (000's  
1927, on Basis of Returns made to the**

COUNTRIES		TOTAL ESTIMATED NUMBER OF SPINNING SPINDLES		MULE SPINDLES	
		HALF YEAR ENDING		HALF YEAR ENDING	
		July 31, 1927	Jan. 31, 1927	July 31, 1927	Jan. 31, 1927
Europe:					
1	Great Britain . . . . .	57,325	57,548	43,816	43,933
2	Germany . . . . .	10,800	10,900	4,350	4,965
3	France . . . . .	9,567	9,522	3,523	3,854
4	Russia . . . . .	6,945	6,946	2,597	2,598
5	Italy . . . . .	5,086	4,941	803	749
6	Czechoslovakia . . . . .	3,629	3,590	1,768	1,752
7	Belgium . . . . .	1,873	1,892	450	455
8	Spain . . . . .	1,936	1,817	457	624
9	Switzerland . . . . .	1,518	1,523	741	763
10	Poland . . . . .	1,372	1,412	442	439
11	Austria . . . . .	1,025	1,041	412	417
12	Holland . . . . .	1,002	994	244	243
13	Sweden . . . . .	602	614	117	123
14	Portugal . . . . .	503	503	173	173
15	Finland . . . . .	253	253	57	56
16	Denmark . . . . .	96	96	6	6
17	Norway . . . . .	60	61	13	15
18	Total . . . . .	103,592	103,653	59,969	61,165
Asia:					
19	India . . . . .	8,714	8,714	971	971
20	Japan . . . . .	5,952	5,680	36	35
21	China . . . . .	3,568	3,433	—	—
22	Total . . . . .	18,234	17,827	1,007	1,006
America:					
23	U. S. A. . . . .	36,728	37,374	2,588 <sup>1</sup>	2,588 <sup>1</sup>
24	Canada . . . . .	1,153	1,154	205	206
25	Mexico . . . . .	838	834	5	5
26	Brazil . . . . .	2,593	2,551	3	3
27	Total . . . . .	41,312	41,913	2,801	2,802
28	Sundries . . . . .	1,459	1,223	150	123
29	Grand totals . . . . .	164,597	164,616	63,927	65,096

<sup>1</sup> Approximate.



omitted) for the Half Years July 31st, 1927, and January 31st, International Cotton Federation's Statistics

RING SPINDLES		SPINDLES SPINNING EGYPTIAN COTTON		SPINDLES IN COURSE OF ERECTION		
HALF YEAR ENDING		HALF YEAR ENDING		HALF YEAR ENDING		
July 31, 1927	Jan. 31, 1927	July 31, 1927	Jan. 31, 1927	July 31, 1927	Jan. 31, 1927	
13,509	13,615	18,001	19,352	137	241	1
6,450	5,935	985	1,113	278	107	2
6,044	5,668	2,300	2,300	71	85	3
4,348	4,348	300	300	220	100	4
4,283	4,192	588	610	4	57	5
1,861	1,838	475	460	43	17	6
1,423	1,437	155	30	-	45	7
1,479	1,193	28	155	43	-	8
777	760	859	832	24	24	9
930	973	130	138	64	72	10
613	624	49	45	8	25	11
758	751	-	-	55	25	12
485	491	13	8	10	11	13
330	330	3	10	-	3	14
196	197	9	10	-	1	15
90	90	-	-	-	-	16
47	46	-	-	-	-	17
43,623	42,488	23,895	25,363	957	813	18
7,743	7,743	23	23	15	29	19
5,916	5,645	541	546	150	150	20
3,568	3,433	-	-	1	8	21
17,227	16,821	564	569	166	187	22
34,140 <sup>1</sup>	34,786 <sup>1</sup>	2,000 <sup>1</sup>	2,000 <sup>1</sup>	-	-	23
948	948	48	19	-	39	24
833	829	4	-	-	-	25
2,590	2,548	-	-	21	84	26
38,511	39,111	2,052	2,019	21	123	27
1,309	1,100	134	76	33	-	28
100,670	99,520	26,645	28,027	1,177	1,123	29

<sup>1</sup> Approximate.

# World's Cotton Spindles <sup>1</sup>

As compiled by leading authorities

YEARS	United States Bureau of the Census	Shepperson's Cotton Facts	Comtelburo's Cotton Handbook	International Federation of Master Cotton Spinners
1900 . . . . .	105,681,000	—	103,115,000	—
1901 . . . . .	—	107,395,000	102,715,145	—
1902 . . . . .	—	—	111,802,010	—
1903 . . . . .	—	—	112,854,077	—
1904 . . . . .	—	—	114,394,712	—
1905 . . . . .	116,764,438	—	118,254,146	—
1906 . . . . .	120,090,595	—	123,229,202	—
1907 . . . . .	123,332,971	124,320,000	126,594,000	114,096,168
1908 . . . . .	130,054,408	—	129,346,714	128,923,659
1909 . . . . .	133,377,000	—	136,903,457	131,503,062
1910 . . . . .	134,526,000	—	139,608,000	133,384,794
1911 . . . . .	137,792,000	—	141,625,000	137,278,752
1912 . . . . .	140,996,000	—	143,142,000	140,693,103
1913 . . . . .	143,398,000	143,730,000	147,191,000	143,452,659
1914 . . . . .	146,397,000	144,980,000	148,891,000	144,704,012
1915 . . . . .	—	148,226,000	150,737,000	—
1916 . . . . .	—	149,785,000	151,667,000	—
1917 . . . . .	148,500,000	151,200,000	154,310,000	—
1918 . . . . .	150,000,000	149,400,000	—	—
1919 . . . . .	150,000,000	153,505,000	153,799,000	—
1920 . . . . .	154,600,000	151,313,000	156,163,000	154,201,462
1921 . . . . .	153,010,000	147,922,000	157,081,000	152,317,054
1922 . . . . .	157,020,000	157,061,000	158,795,000	154,555,267
1923 . . . . .	157,000,000	156,811,000	162,357,000	156,353,000
1924 . . . . .	159,109,000	157,536,464	163,948,835	158,047,000
1925 . . . . .	161,832,000	158,746,784	166,090,536	161,363,000
1926 . . . . .	164,210,000	161,484,000	171,092,662	163,723,000
1927 . . . . .	164,956,000	161,778,000	173,048,733	164,597,000

<sup>1</sup> For those years for which no statistics are given the authorities here quoted either did not compile estimates or their estimates are not available.

# Active Cotton Spindles in the United States, by States

Source: United States Bureau of the Census

	1922	1923	1924	1925	1926	1927
New England States:						
Maine . . . . .	1,121,527	1,137,651	1,133,732	1,130,728	1,104,054	995,562
New Hampshire . . . .	1,376,483	1,384,757	1,238,078	1,245,968	1,227,662	1,179,572
Vermont . . . . .	144,808	144,808	144,808	144,808	115,702	144,558
Massachusetts . . . . .	11,235,406	11,222,741	10,589,228	9,766,276	9,488,374	9,231,976
Rhode Island . . . . .	2,746,721	2,837,903	2,732,520	2,524,842	2,455,046	2,322,420
Connecticut . . . . .	1,313,860	1,325,856	1,227,670	1,162,820	1,134,834	1,121,372
Total New England States . . . . .	17,938,805	18,053,716	17,066,036	15,975,442	15,525,672	14,995,460
Other Non-Cotton-growing States:						
New York . . . . .	963,583	1,000,234	951,640	873,180	830,652	753,172
New Jersey . . . . .	424,591	440,560	437,854	480,112	405,324	378,444
Pennsylvania . . . . .	185,550	164,507	169,216	145,788	141,514	114,334
Maryland . . . . .	112,936	112,024	104,500	92,252	92,724	85,524
Indiana . . . . .	79,256	80,756	81,480	81,980	81,984	82,788
Illinois . . . . .	57,432	58,720	58,782	57,896	56,804	58,920
Other . . . . .	39,420	39,124	35,652	36,554	41,142	47,360
Total Other Non-Cotton-growing States . . . . .	1,862,768	1,895,925	1,839,124	1,764,762	1,650,144	1,520,542
Cotton-growing States:						
Virginia . . . . .	628,538	654,785	688,870	694,354	694,642	691,302
North Carolina . . . . .	5,251,467	5,463,547	5,763,334	5,909,666	5,943,208	6,094,136
South Carolina . . . . .	5,081,609	5,107,038	5,215,828	5,295,170	5,347,050	5,376,034
Georgia . . . . .	2,598,070	2,682,730	2,757,480	2,807,756	2,900,994	2,941,222
Alabama . . . . .	1,281,861	1,294,512	1,356,638	1,421,884	1,441,522	1,487,556
Mississippi . . . . .	172,612	178,508	177,508	142,212	140,692	154,312
Tennessee . . . . .	424,560	437,168	459,160	468,564	546,604	580,776
Kentucky . . . . .	93,184	92,684	91,284	92,762	93,890	83,610
Louisiana . . . . .	97,128	94,748	94,748	89,564	95,564	100,764
Texas . . . . .	168,192	175,104	193,100	225,862	226,272	253,068
Other . . . . .	108,944	129,536	146,228	144,248	144,012	131,128
Total Cotton-growing States . . . . .	15,906,165	16,310,360	16,944,178	17,292,042	17,574,450	17,893,908
Total United States . . . . .	35,707,738	36,260,001	35,849,338	35,032,246	34,750,266	34,409,910

## Cotton Spindles in Place and Spindle Hours, by Months

Source: United States Bureau of the Census

MONTH AND STATE	COTTON SPINDLES IN PLACE			ACTIVE SPINDLE HOURS		
	1926-27	1925-26	1924-25	1926-27	1925-26	1924-25
<b>MONTHS</b>						
United States:						
August . . .	37,524,376	37,913,678	37,868,968	7,486,820,532	6,935,296,870	5,434,436,281
September . . .	37,423,770	37,893,264	37,901,344	8,256,617,505	7,106,620,234	6,471,791,548
October . . .	37,425,076	37,894,066	37,906,230	8,366,819,617	7,963,201,278	7,655,209,854
November . . .	37,420,798	37,907,748	37,899,058	8,483,083,401	7,824,865,192	7,143,314,102
December . . .	37,364,730	37,871,936	37,939,772	8,585,488,609	8,261,296,953	7,841,016,264
January . . .	37,462,208	37,841,892	37,925,698	8,554,496,234	8,356,410,777	8,553,990,895
February . . .	37,222,282	37,858,358	37,890,576	8,238,917,292	8,120,989,511	7,892,607,663
March . . .	37,017,908	37,856,574	37,805,122	9,638,035,839	9,168,726,450	8,614,547,421
April . . .	36,913,420	37,711,754	37,808,900	8,788,077,771	8,344,768,781	8,520,044,774
May . . .	36,842,910	37,701,534	37,842,464	8,983,483,237	7,502,511,278	7,931,831,847
June . . .	36,821,934	37,680,268	37,843,208	9,190,619,760	7,606,036,127	7,686,275,664
July . . .	36,695,516	37,586,166	37,928,792	8,032,943,681	6,750,357,310	7,309,549,004
<b>Cotton-growing States:</b>						
August . . .	17,879,194	17,633,312	17,238,176	4,865,440,157	4,276,181,226	3,355,675,020
September . . .	17,877,038	17,659,356	17,292,194	5,332,061,031	4,386,448,950	4,087,220,552
October . . .	17,895,160	17,704,802	17,296,496	5,306,356,541	4,771,823,551	4,858,259,078
November . . .	17,925,248	17,721,354	17,299,084	5,503,532,638	4,884,528,910	4,561,827,959
December . . .	17,897,622	17,747,124	17,358,138	5,430,973,722	5,085,915,069	4,623,100,481
January . . .	18,112,244	17,743,152	17,396,394	5,502,064,885	5,290,802,703	5,260,626,243
February . . .	18,028,970	17,770,718	17,421,466	5,270,018,945	5,076,624,154	4,786,824,859
March . . .	18,063,992	17,834,932	17,429,278	6,098,058,493	5,633,371,248	5,187,082,773
April . . .	18,107,172	17,842,468	17,461,172	5,639,302,724	5,219,404,701	5,129,572,735
May . . .	18,126,814	17,852,144	17,495,584	5,779,113,995	4,678,043,827	4,832,480,926
June . . .	18,143,772	17,864,412	17,520,574	5,854,749,711	4,778,964,829	4,725,126,122
July . . .	18,169,026	17,874,750	17,634,948	5,283,306,856	4,435,605,222	4,504,269,940
<b>New England:</b>						
August . . .	17,880,560	18,327,346	18,563,624	2,358,593,681	2,391,972,175	1,871,881,644
September . . .	17,823,404	18,272,552	18,566,804	2,615,389,640	2,398,740,145	2,108,483,594
October . . .	17,808,700	18,240,142	18,576,944	2,739,998,985	2,831,183,492	2,450,286,519
November . . .	17,780,766	18,237,380	18,573,908	2,657,674,743	2,613,175,387	2,284,041,965
December . . .	17,750,526	18,174,838	18,560,372	2,840,148,221	2,800,407,533	2,866,553,619
January . . .	17,651,446	18,171,722	18,535,054	2,741,866,428	2,716,634,079	2,923,600,675
February . . .	17,494,488	18,164,642	18,498,704	2,665,697,675	2,721,948,581	2,787,257,919
March . . .	17,271,212	18,170,398	18,406,942	3,180,442,956	3,171,486,487	3,069,881,237
April . . .	17,136,142	18,092,890	18,381,336	2,840,690,049	2,775,785,636	2,997,308,450
May . . .	17,047,892	18,072,214	18,384,182	2,901,486,955	2,532,002,300	2,746,459,513
June . . .	17,021,558	18,039,500	18,363,264	3,016,975,576	2,521,842,750	2,617,707,672
July . . .	16,871,358	17,946,160	18,332,654	2,493,244,860	2,066,249,346	2,477,752,061
<b>All other States:</b>						
August . . .	1,764,622	1,953,020	2,067,168	262,786,694	267,143,469	206,879,617
September . . .	1,723,328	1,961,356	2,042,346	309,166,834	321,431,139	276,087,402
October . . .	1,721,216	1,949,122	2,032,790	320,464,091	360,194,235	346,664,257
November . . .	1,714,784	1,949,014	2,026,066	321,876,020	327,160,895	297,444,178
December . . .	1,716,582	1,949,974	2,021,262	314,366,666	374,974,351	351,362,164
January . . .	1,698,518	1,927,018	1,994,250	310,564,921	348,973,995	369,763,977
February . . .	1,698,824	1,922,998	1,970,406	303,200,672	322,416,776	318,524,885
March . . .	1,682,704	1,851,244	1,968,902	359,534,390	365,868,715	357,583,411
April . . .	1,670,106	1,776,396	1,966,392	308,084,998	349,578,444	393,163,589
May . . .	1,668,204	1,777,176	1,962,698	302,882,287	292,465,151	352,891,408
June . . .	1,656,604	1,776,356	1,959,370	318,894,473	305,228,548	343,441,870
July . . .	1,655,132	1,765,256	1,961,190	256,391,965	248,502,742	327,527,003
<b>STATES</b>						
Total . . .	36,695,516	37,586,166	37,928,792	102,605,403,478	93,941,080,761	91,054,615,317
Cotton-growing . . .	18,169,026	17,874,750	17,634,948	65,864,979,698	58,517,714,390	55,912,066,688
New England . . .	16,871,358	17,946,160	18,332,654	33,052,209,769	31,541,427,911	31,201,214,868
All other . . .	1,655,132	1,765,256	1,961,190	3,688,214,011	3,881,938,460	3,941,333,761

## United States Cotton Spinning Spindles in Place, by States

Source: United States Bureau of the Census

YEAR	Massachusetts	Rhode Island	New Hampshire	Maine	Connecticut	Vermont	New York	New Jersey	Pennsylvania	Maryland
1890	5,872,852	1,959,294	1,198,643	892,762	939,155	71,591	629,324	374,442	496,551	161,786
1900	7,932,883	1,976,198	1,249,875	848,377	1,064,016	100,028	764,492	431,730	336,509	154,064
1905	8,388,533	2,055,912	1,332,075	904,490	1,034,915	100,382	878,276	438,372	339,924	154,968
1906	8,790,793	2,130,958	1,296,445	912,593	1,174,527	102,264	806,254	417,679	288,143	134,112
1907	9,167,698	2,231,461	1,357,877	1,007,717	1,268,065	130,752	1,011,368	440,354	400,395	151,384
1908	9,446,380	2,388,105	1,320,503	978,188	1,240,296	107,324	928,316	447,029	268,310	151,000
1909	9,688,637	2,399,440	1,313,581	1,005,258	1,253,582	105,184	942,521	460,888	275,654	152,266
1910	9,703,573	2,412,272	1,440,173	1,037,176	1,282,232	105,184	970,445	463,403	297,799	153,010
1911	10,613,290	2,526,995	1,462,788	1,066,552	1,270,071	105,276	963,969	483,057	280,202	160,114
1912	11,066,846	2,552,743	1,453,778	1,052,674	1,307,907	136,892	925,576	485,176	265,715	158,168
1913	11,075,684	2,533,380	1,460,137	1,096,986	1,308,650	136,304	956,595	476,731	249,837	162,288
1914	11,046,990	2,574,942	1,466,580	1,117,228	1,340,482	136,304	967,578	477,779	252,685	166,240
1915	10,914,087	2,567,644	1,468,390	1,104,209	1,335,282	136,301	963,748	481,255	259,965	157,380
1916	11,104,810	2,611,553	1,465,013	1,108,790	1,362,186	135,864	913,979	482,831	256,913	151,904
1917	11,280,351	2,653,397	1,459,853	1,099,278	1,372,860	135,864	938,158	491,843	256,314	147,764
1918	11,512,247	2,683,451	1,462,462	1,096,255	1,376,554	135,864	983,893	487,755	262,806	153,531
1919	11,630,397	2,678,180	1,444,074	1,111,940	1,387,517	141,224	980,321	489,647	266,003	145,208
1920	11,758,613	2,675,892	1,443,776	1,127,138	1,392,547	144,808	997,542	417,837	259,715	145,460
1921	11,810,563	2,805,538	1,457,428	1,126,452	1,388,949	144,808	1,017,163	424,145	268,878	142,792
1922	11,922,573	2,820,202	1,448,660	1,146,440	1,364,656	144,808	1,019,528	433,983	236,263	130,024
1923	11,931,334	2,876,708	1,449,700	1,140,928	1,366,668	144,808	1,037,418	447,152	203,305	131,104
1924	11,792,100	2,797,766	1,448,403	1,137,704	1,254,868	144,808	1,024,290	442,424	195,300	131,296
1925	11,597,424	2,787,638	1,445,734	1,118,236	1,238,814	144,808	995,878	513,032	157,780	94,152
1926	11,417,406	2,612,680	1,438,662	1,130,568	1,202,036	144,808	916,126	415,604	142,722	92,724
1927	10,541,966	2,468,790	1,430,238	1,118,316	1,167,240	144,808	872,880	378,444	120,172	92,724

## United States Cotton Spinning Spindles in Place, by States — (Concluded)

Source: United States Bureau of the Census

YEAR	Alabama	Georgia	Louisiana	Mississippi	North Carolina	South Carolina	Tennessee	Texas	Virginia
1890	79,234	445,452	46,200	57,004	337,786	332,784	97,524	15,000	94,294
1900	411,328	815,545	55,600	75,122	1,133,432	1,431,349	123,896	48,756	126,827
1905	758,087	1,316,573	59,052	125,352	1,880,950	2,864,092	153,375	68,170	193,062
1906	870,154	1,573,450	95,200	163,188	2,396,703	3,367,204	258,794	101,759	253,206
1907	904,244	1,682,506	88,724	173,064	2,681,386	3,609,909	253,148	109,892	272,710
1908	939,942	1,792,790	89,552	173,216	2,944,404	3,713,006	265,198	106,924	295,579
1909	984,534	1,831,742	89,152	176,640	3,010,367	3,819,149	272,856	106,528	315,676
1910	968,239	1,833,244	87,070	185,280	3,062,061	3,833,901	272,774	108,778	329,174
1911	967,564	1,980,813	86,588	183,662	3,353,706	4,187,317	253,460	113,100	372,816
1912	985,968	2,025,238	86,088	191,092	3,403,996	4,327,178	254,278	114,352	414,148
1913	1,000,080	2,103,018	86,095	192,306	3,593,999	4,536,353	271,634	123,908	426,920
1914	1,058,685	2,160,571	86,095	190,216	3,813,940	4,632,204	296,620	124,628	477,886
1915	1,075,859	2,178,573	79,763	184,636	3,915,842	4,710,826	320,052	124,848	513,434
1916	1,126,846	2,275,929	79,563	166,984	4,053,206	4,743,193	319,148	128,762	516,166
1917	1,136,786	2,422,810	93,408	167,604	4,375,283	4,851,161	350,352	128,112	528,394
1918	1,169,624	2,482,131	96,832	166,932	4,591,026	4,903,840	367,503	132,236	524,194
1919	1,292,294	2,518,059	102,944	155,756	4,789,322	4,955,765	373,695	140,054	580,310
1920	1,215,268	2,542,155	103,128	174,714	4,954,935	4,974,460	399,963	145,054	575,610
1921	1,283,096	2,648,325	103,128	176,778	5,228,266	5,013,538	415,593	166,468	488,982
1922	1,300,699	2,679,379	101,128	172,612	5,292,880	5,090,088	427,832	168,192	633,870
1923	1,330,162	2,693,535	100,748	178,508	5,509,183	5,132,364	438,696	176,444	673,306
1924	1,392,778	2,798,242	100,748	182,508	5,558,762	5,263,258	456,992	207,248	707,314
1925	1,432,378	2,885,166	100,748	185,192	5,982,076	5,321,264	544,424	239,596	711,314
1926	1,470,024	2,911,590	95,564	177,836	6,075,168	5,355,320	567,500	239,828	711,314
1927	1,523,490	2,969,332	100,764	175,644	6,198,606	5,402,540	588,318	268,848	711,378

# Spindles in Place and Spindle Hours, by States

Source: United States Bureau of the Census

STATES	COTTON SPINDLES IN PLACE			ACTIVE SPINDLE HOURS		
	1926-27	1925-26	1924-25	1926-27	1925-26	1924-25
Total	36,695,516	37,586,166	37,928,792	102,605,403,478	93,941,080,761	91,051,615,317
Cotton-growing	18,169,026	17,874,750	17,634,948	65,864,979,698	58,517,714,390	55,912,066,688
New England	16,871,358	17,946,160	18,332,654	33,052,209,769	31,541,427,911	31,201,214,868
All other	1,655,132	1,765,256	1,961,190	3,688,214,011	3,881,938,460	3,941,333,761
Alabama	1,523,490	1,470,024	1,432,378	5,084,877,770	4,785,353,212	4,310,503,544
Connecticut	1,167,240	1,202,036	1,238,814	2,544,306,990	2,441,473,291	2,530,223,753
Georgia	2,969,332	2,911,590	2,855,166	10,269,862,077	9,315,107,275	8,953,643,722
Maine	1,118,316	1,130,568	1,118,236	2,117,175,726	2,139,527,649	2,176,234,432
Massachusetts	10,541,966	11,417,406	11,597,424	20,116,191,565	18,938,121,787	18,666,085,567
New Hampshire	1,430,238	1,438,662	1,445,734	2,744,839,466	2,572,495,341	2,308,269,862
New Jersey	378,444	415,604	513,032	757,072,479	957,155,975	1,080,315,700
New York	872,880	916,126	995,878	1,921,724,016	1,920,849,537	1,907,877,530
North Carolina	6,198,606	6,075,168	5,982,076	23,002,232,377	19,952,947,406	19,606,791,926
Pennsylvania	120,172	142,722	157,780	259,216,091	309,590,029	314,272,931
Rhode Island	2,468,790	2,612,680	2,787,638	5,196,827,151	5,217,301,431	5,254,543,995
South Carolina	5,402,540	5,355,320	5,321,264	21,427,606,880	18,826,171,662	18,007,339,810
Tennessee	588,318	567,500	544,424	1,945,362,447	1,662,560,879	1,365,884,854
Texas	268,848	239,828	239,596	902,495,262	791,595,476	649,519,775
Virginia	711,378	711,314	711,314	1,838,849,548	1,770,597,532	1,674,266,691
All other States	934,958	979,618	988,038	2,476,763,633	2,340,232,279	2,248,841,225

## Spindles in Place in Leading Counties, 1927

Source: United States Bureau of the Census

COUNTY	Spindles (Number)	COUNTY	Spindles (Number)	COUNTY	Spindles (Number)
Bristol, Mass.	7,157,574	York, S. C.	267,596	Calhoun, Ala.	167,832
Providence, R. I.	1,643,774	Richmond, N. C.	266,856	Tallapoosa, Ala.	167,208
Gaston, N. C.	1,154,732	Richland, S. C.	253,588	Lancaster, S. C.	163,928
Spartanburg, S. C.	954,524	Greenwood, S. C.	249,256	Floyd, Ga.	162,188
Hillsborough, N. H.	889,444	Hudson, N. J.	242,024	Kennebec, Me.	157,768
Greenville, S. C.	764,380	Pickens, S. C.	231,608	Chester, S. C.	148,648
Middlesex, Mass.	679,444	Albany, N. Y.	229,960	Halifax, N. C.	147,080
Hampden, Mass.	663,088	Cherokee, S. C.	227,300	Cumberland, Me.	138,320
Windham, Conn.	649,304	Laurens, S. C.	224,176	Spalding, Ga.	136,968
Worcester, Mass.	623,668	Bristol, R. I.	223,164	Catawba, N. C.	131,512
Anderson, S. C.	603,284	Rowan, N. C.	217,600	Davidson, N. C.	130,636
Essex, Mass.	575,300	Fulton, Ga.	206,748	Iredell, N. C.	123,564
Berkshire, Mass.	552,700	Rutherford, N. C.	209,736	Upson, Ga.	119,040
Kent, R. I.	482,312	Rockingham, N. C.	202,852	Caldwell, N. C.	118,080
New London, Conn.	477,352	Aiken, S. C.	199,520	Lincoln, N. C.	117,560
Pittsylvania, Va.	467,440	Chambers, Ala.	196,312	McDowell, N. C.	114,464
Cabarrus, N. C.	457,600	Cleveland, N. C.	193,436	Coweta, Ga.	112,712
Muscogee, Ga.	447,932	Newberry, S. C.	193,392	Merrimack, N. H.	112,700
Androscoggin, Me.	423,644	Troup, Ga.	192,600	Robeson, N. C.	110,176
York, Me.	398,584	Richmond, Ga.	189,832	Newton, Ga.	104,568
Oneida, N. Y.	349,016	Alamance, N. C.	188,228	Hall, Ga.	103,156
Union, S. C.	340,260	Knox, Tenn.	187,236	Oconee, S. C.	102,512
Strafford, N. H.	325,000	Hampshire, Mass.	184,800	Vance, N. C.	101,184
Guilford, N. C.	309,876	Stanly, N. C.	181,376	Hamilton, Tenn.	100,136
Mecklenburg, N. C.	309,020	Durham, N. C.	174,928		
Madison, Ala.	277,016	Talladega, Ala.	170,574		

## Active Ring and Mule Spindles

Source: United States Bureau of the Census

STATE	NUMBER OF ACTIVE COTTON SPINDLES							
	1927		1919		1909		1899	
	Ring	Mule	Ring	Mule	Ring	Mule	Ring	Mule
United States	32,727,676	1,682,234	31,561,268	3,369,666	23,256,023	4,922,839	13,444,872	5,563,480
Alabama	1,487,556	—	1,170,658	3,640	909,587	3,916	403,328	8,000
Connecticut	798,612	322,760	932,813	402,578	832,830	446,586	607,448	393,126
Georgia	2,914,414	26,808	2,451,101	48,230	1,703,071	71,896	730,619	84,926
Illinois	58,920	—	45,838	11,705	23,240	16,000	15,488	16,000
Indiana	82,788	—	81,256	—	115,152	8,952	86,168	16,320
Kentucky	79,532	4,078	76,968	16,520	68,124	16,920	48,234	18,399
Louisiana	100,764	—	102,944	—	63,096	4,806	55,600	—
Maine	979,802	15,760	1,064,892	42,160	867,364	161,316	584,573	256,948
Maryland	85,524	—	140,940	—	133,302	—	154,064	—
Massachusetts	8,398,112	833,864	9,743,150	1,633,153	7,480,902	2,156,699	5,228,371	2,556,316
Mississippi	154,312	—	143,874	—	159,104	800	75,122	—
New Hampshire	1,169,938	9,634	1,410,947	23,008	1,169,850	156,050	956,390	287,165
New Jersey	238,016	140,428	204,355	276,012	107,381	313,403	64,638	367,092
New York	747,502	5,670	862,981	113,608	547,512	415,329	353,132	367,136
North Carolina	6,079,528	14,608	4,736,288	33,840	2,886,453	71,782	1,098,080	35,352
Pennsylvania	110,574	3,760	155,228	96,605	139,062	139,245	182,190	124,447
Rhode Island	2,042,926	279,494	2,037,036	634,896	1,496,434	875,343	940,294	940,328
South Carolina	5,375,634	400	4,907,745	2,460	3,732,063	28,828	1,420,597	10,752
Tennessee	570,776	10,000	355,138	13,401	297,530	10,000	103,116	20,780
Texas	253,068	—	140,054	—	97,628	—	48,756	—
Vermont	134,358	10,200	131,024	10,200	75,872	15,840	56,712	43,316
Virginia	686,892	4,410	552,440	7,050	316,976	7,572	124,562	2,325
All other States	178,128	360	113,598	600	93,496	1,556	107,450	14,752



# **Number of Active Ring and Mule Cotton Spindles in the United States, for Selected Years, 1889 to 1927**

United States Bureau of the Census

YEAR	Total	Ring	Mule
1927 . . . . .	34,409,910	32,727,676	1,682,234
1926 . . . . .	34,750,266	32,797,096	1,953,170
1925 . . . . .	35,032,246	32,959,642	2,072,604
1924 . . . . .	35,849,338	33,529,602	2,319,736
1923 . . . . .	36,260,001	33,786,015	2,473,986
1922 . . . . .	35,707,738	33,089,667	2,618,071
1921 . . . . .	36,047,367	32,993,331	3,054,036
1920 . . . . .	35,480,953	32,222,325	3,258,628
1919 . . . . .	34,930,934	31,561,268	3,369,666
1918 . . . . .	34,542,665	31,020,749	3,521,916
1917 . . . . .	33,888,835	30,264,074	3,624,761
1916 . . . . .	32,805,883	29,094,263	3,711,620
1915 . . . . .	31,964,235	28,122,792	3,841,443
1914 . . . . .	32,107,572	28,016,390	4,091,182
1913 . . . . .	31,519,766	27,380,573	4,139,193
1912 . . . . .	30,578,528	26,211,979	4,366,549
1909 . . . . .	28,178,862	23,256,023	4,922,839
1904 . . . . .	23,672,064	18,218,800	5,453,264
1899 <sup>1</sup> . . . . .	19,008,352	13,444,872	5,563,480
1889 <sup>1</sup> . . . . .	14,188,103	8,824,617	5,363,486

<sup>1</sup> Includes only spindles in establishments classified as cotton goods.

## Cotton Mills in Southern States

Source: New Orleans Cotton Exchange

STATES	1921	1922	1923	1924	1925	1926	1927
Virginia . . . . .	14	14	14	14	14	14	14
North Carolina . . . . .	420	425	437	444	445	448	447
South Carolina . . . . .	201	202	206	201	205	207	207
Georgia . . . . .	161	161	164	167	166	170	173
Alabama . . . . .	81	83	84	84	85	88	90
Mississippi . . . . .	18	18	18	18	18	17	17
Tennessee . . . . .	25	25	28	28	29	29	30
Kentucky . . . . .	6	6	5	6	6	6	5
Missouri . . . . .	2	2	2	2	2	2	2
Arkansas . . . . .	2	2	2	2	3	3	6
Louisiana . . . . .	5	5	5	5	5	4	5
Texas . . . . .	21	22	22	25	30	32	33
Oklahoma . . . . .	1	1	2	2	2	2	2
Total . . . . .	957	966	989	998	1,010	1,022	1,031

## Looms in Southern Cotton Mills

Source: New Orleans Cotton Exchange

STATES	1921	1922	1923	1924	1925	1926	1927
Virginia . . . . .	17,895	18,487	19,327	19,320	19,328	19,388	19,318
North Carolina . . . . .	73,233	74,554	81,366	84,615	85,976	86,011	81,343
South Carolina . . . . .	115,415	116,949	119,248	123,724	126,476	124,898	125,425
Georgia . . . . .	47,331	47,966	50,019	50,933	51,846	53,479	55,566
Alabama . . . . .	21,957	23,320	23,792	25,568	26,114	26,694	27,093
Mississippi . . . . .	4,152	4,190	4,818	4,839	4,776	4,860	4,648
Tennessee . . . . .	5,990	6,004	6,328	6,274	8,159	8,260	8,061
Kentucky . . . . .	1,295	1,385	1,376	1,378	1,376	1,376	1,376
Missouri . . . . .	730	730	730	730	580	580	580
Arkansas . . . . .	133	150	150	—	—	203	251
Louisiana . . . . .	2,018	2,018	2,229	2,329	2,329	2,429	2,483
Texas . . . . .	4,035	4,419	5,745	5,976	6,124	6,517	7,203
Oklahoma . . . . .	64	64	564	564	468	508	454
Total . . . . .	294,248	300,236	315,692	326,250	333,552	335,203	333,801

# The World's Cotton Mills, 1927

Source: Comtelburo's Cotton Handbook

COUNTRY		Mills	Spindles	Looms	Consumption (Bales)	Hands employed
Great Britain	1927	1,865	60,465,682	767,524	3,144,387	630,000
United States, North	1926	713	19,551,319	420,778	2,464,084	236,000
United States, South	1927	996	17,931,991	324,742	5,471,391	186,000
Canada	1926	51	1,728,336	35,712	273,276	28,500
Germany	1927	372	10,900,000	250,000	2,433,179	120,000
Russia	1926	167	10,827,500	270,712	929,174	459,055
Poland	1927	63	1,362,000	42,561	290,000	69,200
Finland	1927	6	255,600	6,700	41,000	7,900
Esthonia	1927	6	549,124	5,945	18,000	5,000
Latvia	1927	4	92,500	735	6,000	1,100
France	1927	580	9,613,000	182,800	1,237,000	199,000
Hungary	1927	36	132,000	9,800	30,000	9,000
Austria	1927	87	1,051,897	14,942	142,000	19,000
Czechoslovakia	1927	86	3,600,000	110,000	342,000	120,000
Jugo-Slavia	1926	18	115,000	5,000	79,366	5,644
Switzerland	1927	64	1,525,722	27,057	105,720	27,300
Italy	1927	700	5,000,000	150,000	780,000	250,000
Spain	1927	300	1,900,000	71,000	400,000	125,000
Portugal	1927	52	503,000	22,000	60,000	30,000
Belgium	1927	225	2,132,000	54,000	280,000	37,500
Holland	1927	101	994,268	50,235	144,000	36,500
Sweden	1927	35	614,000	16,000	90,000	14,000
Norway	1927	15	66,150	2,853	7,000	2,735
Denmark	1927	37	95,956	5,891	18,759	3,230
Turkey	1927	1	5,000	-	3,325	-
Bulgaria	1923	8	27,311	560	-	250
Cyprus	1927	1	1,800	-	450	75
Greece	1927	10	190,000	2,000	40,000	8,500
Roumania	1927	2	33,300	5,000	48,500	6,500
Egypt	1927	1	40,000	8,000	15,000	1,200
Asia Minor	1927	6	50,000	3,325	36,750	3,030
India	1926	334	8,714,168	159,464	2,113,384	373,508
China	1927	118	3,588,483	24,047	1,800,000	210,000
Japan	1927	247	5,679,852	77,043	2,195,000	239,914
Indo-China	1925	5	90,000	500	45,000	3,000
Brazil	1927	329	2,528,611	75,631	529,561	124,619
Argentina	1924	7	30,000	1,500	10,000	2,000
Chile	1916	3	5,000	400	-	454
Peru	1927	11	76,796	3,049	12,500	3,100
Colombia	1926	38	52,000	1,980	12,000	5,000
Ecuador	1927	12	38,874	836	12,000	2,542
Venezuela	1927	7	42,700	1,617	26,000	5,000
Guatemala	1925	1	5,000	150	5,984	500
Mexico	1927	161	842,793	31,296	160,000	44,250
Total (estimated)	.	7,881	173,048,733	3,243,385	25,851,790	3,655,106

## Japanese Cotton Industry

Source: Japan Cotton Spinners' Association

YEARS	Number of Companies	Number of Mills	CAPITAL		Reserve Funds (Yen) <sup>1</sup>	NUMBER OF SPINDLES			Twisting Spindles	Looms
			Authorized (Yen) <sup>1</sup>	Paid-up (Yen) <sup>1</sup>		Ring	Mule	Total		
1906 .	47	-	45,403,350	38,433,350	15,386,948	1,395,013	77,240	1,472,253	136,866	9,601
1907 .	42	118	90,036,300	57,531,125	20,966,234	1,492,032	48,420	1,540,452	154,789	9,462
1908 .	36	125	85,511,300	58,397,385	22,189,614	1,743,921	51,958	1,795,879	177,860	11,146
1909 .	31	134	75,871,300	64,501,000	22,784,470	1,903,854	51,038	1,954,892	227,574	13,813
1910 .	36	136	94,271,300	67,516,013	24,658,967	2,044,284	55,480	2,099,764	282,186	17,702
1911 .	34	139	89,160,150	64,347,164	24,788,872	2,117,756	53,040	2,170,796	286,410	20,431
1912 .	41	147	105,136,400	72,366,495	28,538,314	2,125,000	51,748	2,176,748	317,324	21,898
1913 .	44	152	113,036,401	86,444,059	33,803,119	2,365,094	49,405	2,414,499	320,912	24,224
1914 .	42	157	109,676,400	85,820,424	36,639,349	2,606,004	51,170	2,657,174	348,766	25,443
1915 .	41	161	110,176,400	86,011,677	38,663,064	2,754,124	53,390	2,807,514	355,318	30,068
1916 .	40	161	137,290,150	99,641,818	48,982,381	2,825,944	49,960	2,875,904	370,681	31,295
1917 .	43	170	162,830,150	115,623,020	70,037,275	3,008,568	51,910	3,060,478	383,458	36,181
1918 .	43	177	192,877,650	138,494,595	92,426,047	3,175,768	51,910	3,227,678	384,872	40,391
1919 .	54	190	221,927,650	165,758,695	139,073,869	3,435,932	52,330	3,488,262	410,690	44,401
1920 .	56	198	394,327,650	276,535,896	165,697,053	3,761,250	52,330	3,813,680	466,460	50,583
1921 .	61	217	429,577,650	295,648,358	182,040,774	4,116,616	44,510	4,161,126	538,384	54,994
1922 .	64	235	462,107,650	317,148,075	202,774,376	4,472,112	45,500	4,517,612	602,032	60,765
1923 .	60	228	463,977,650	323,787,485	211,298,943	4,183,596	14,370	4,197,966	501,031	61,421
1924 .	56	232	512,362,500	349,820,568	212,871,930	4,845,082	25,150	4,870,232	676,995	64,225
1925 .	54	230	509,212,500	351,804,817	221,777,742	5,151,962	33,670	5,185,632	715,946	68,160
1926 .	53	234	497,087,500	369,195,247	229,326,484	5,376,092	34,660	5,410,752	785,002	71,719
1927 <sup>2</sup>	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> Yen = \$0.4985 U. S.<sup>2</sup> Not available.

# Japanese Yarn Production

Source: Japan Cotton Spinners' Association

YEARS	PRODUCTION OF COTTON YARN							DAILY OPERATIVES (AVERAGE)			WAGES (AVERAGE DAILY)	
	Average Working Spindles	Coarse Yarn (Bales) <sup>1</sup>	Medium Yarn (Bales) <sup>1</sup>	Fine Yarn (Bales) <sup>1</sup>	Doubling (Bales) <sup>1</sup>	Gassed (Bales) <sup>1</sup>	Total (Bales) <sup>1</sup>	Males	Females	Total	Males	Fe- males
											(Rin) <sup>2</sup>	(Rin) <sup>2</sup>
1906	1,404,714	826,363.0	55,125.0	148.0	43,376.5	20,155.0	945,167.5	14,496	61,278	75,774	365	228
1907	1,458,020	859,214.5	53,762.0	-	47,377.5	23,127.5	983,481.5	15,242	64,377	79,619	393	246
1908	1,367,631	738,659.0	54,171.0	-	59,555.5	26,185.0	878,570.5	15,049	56,154	74,203	410	250
1909	1,569,080	841,778.0	78,975.0	7.0	71,651.0	32,833.5	1,025,244.5	16,844	66,664	83,508	425	267
1910	1,741,168	964,675.0	63,637.5	1,814.5	74,436.5	30,217.0	1,134,780.5	18,266	75,614	93,880	434	272
1911	1,784,064	934,713.0	82,739.5	4,627.5	74,536.0	32,651.0	1,129,267.0	17,628	74,808	92,496	450	288
1912	1,984,191	1,090,172.5	119,893.5	6,722.5	95,683.5	39,737.5	1,352,209.5	18,421	80,779	99,200	467	305
1913	2,167,926	1,212,001.5	142,409.0	8,666.5	109,996.0	44,909.0	1,517,982.0	19,707	88,038	107,745	485	320
1914	2,369,801	1,350,850.5	149,498.0	7,760.5	119,790.0	38,282.0	1,666,181.0	22,163	92,251	114,414	491	319
1915	2,463,376	1,360,259.0	187,761.0	8,096.5	130,536.5	33,611.5	1,720,264.5	22,674	92,500	115,174	495	322
1916	2,757,299	1,458,617.0	259,840.0	10,153.5	155,483.5	41,485.0	1,925,579.0	23,845	97,279	121,124	500	334
1917	2,850,637	1,421,978.0	287,259.5	7,730.5	164,850.0	42,023.0	1,923,841.5	25,518	97,648	123,166	545	371
1918	2,936,495	1,245,723.5	366,868.5	7,427.5	138,286.5	45,560.0	1,803,866.0	26,790	95,069	121,859	686	476
1919	3,179,568	1,285,926.0	422,967.5	9,202.0	156,542.5	46,144.5	1,920,782.5	30,935	101,399	131,839	1,116	870
1920	3,191,753	1,222,525.5	401,868.5	7,477.5	146,562.5	38,542.0	1,816,976.0	33,966	109,782	143,748	1,567	1,196
1921	3,162,353	1,276,600.5	346,148.5	6,199.5	141,136.0	41,265.5	1,811,350.0	34,904	105,704	140,608	1,463	1,134
1922	3,967,265	1,557,052.0	429,484.5	7,167.5	185,761.5	48,780.5	2,228,246.0	41,009	132,442	173,451	1,544	1,243
1923	4,079,855	1,484,705.5	449,274.5	10,175.0	177,472.5	49,525.5	2,171,153.0	38,159	121,811	159,970	1,483	1,180
1924	4,115,692	1,320,986.5	449,037.5	13,479.0	184,539.0	54,751.0	2,072,817.5	36,015	117,307	153,322	1,524	1,206
1925	4,669,753	1,541,615.5	587,005.5	16,145.0	229,079.5	62,938.0	2,436,783.5	39,221	134,383	173,604	1,548	1,224
1926	5,002,932	1,629,698.5	637,499.5	16,164.0	248,847.0	75,537.0	2,607,746.5	40,735	141,787	182,522	-	-
1927 <sup>3</sup>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup> Bales of 400 pounds each.

<sup>2</sup> Rin = 1/1000 yen = \$0.00049.

<sup>3</sup> Not available.

## Japanese Cotton Piece-goods Production

Source: Japan Cotton Spinners' Association

YEARS	Average Working Looms	Production of Cotton Piece-goods (Yards)	Yarn Consumed (Pounds)	DAILY OPERATIVES (AVERAGE)			WAGES (AVERAGE DAILY)	
				Male	Female	Total	Male (Rin) <sup>1</sup>	Female (Rin) <sup>1</sup>
1906	8,491	137,773,415	40,702,848	1,248	7,937	9,185	393	259
1907	9,245	135,253,029	44,262,958	1,525	8,727	10,252	430	277
1908	9,496	147,443,838	47,676,427	1,484	8,683	10,167	448	294
1909	11,585	181,976,972	57,388,586	1,871	11,496	13,367	450	304
1910	14,911	226,313,958	71,197,654	2,486	13,604	16,090	459	305
1911	17,884	289,039,671	82,493,136	2,656	17,133	19,789	471	325
1912	20,208	342,584,684	93,592,721	2,795	18,006	20,801	503	349
1913	23,299	416,725,357	111,159,616	3,298	21,956	25,254	530	363
1914	24,911	454,901,674	123,863,966	3,569	22,459	26,028	555	379
1915	27,687	502,076,621	124,632,631	3,547	22,930	26,477	526	374
1916	30,110	560,181,108	136,413,408	3,737	23,245	26,982	534	407
1917	31,920	594,649,419	142,770,758	4,333	24,434	28,767	583	415
1918	36,395	656,935,420	160,301,569	5,532	29,713	35,245	721	531
1919	40,969	739,390,012	179,788,560	7,635	37,040	44,675	1,133	889
1920	44,635	762,037,360	189,651,320	8,005	39,048	47,053	1,572	1,174
1921	44,109	700,697,985	179,427,501	7,078	32,182	39,260	1,492	1,146
1922	51,033	869,327,652	214,327,505	7,857	38,102	45,959	1,544	1,243
1923	52,972	1,030,708,890	249,279,975	7,962	40,549	48,511	1,483	1,180
1924	56,351	1,030,905,658	241,319,095	8,179	43,056	51,235	1,525	1,174
1925	62,976	1,179,524,733	274,472,668	8,703	47,023	55,726	1,574	1,222
1926	65,699	1,277,726,954	294,331,545	9,216	48,177	57,392	-	-
1927 <sup>2</sup>	-	-	-	-	-	-	-	-

<sup>1</sup> Rin = 1/1000 yen = \$0.00049.<sup>2</sup> Not available.

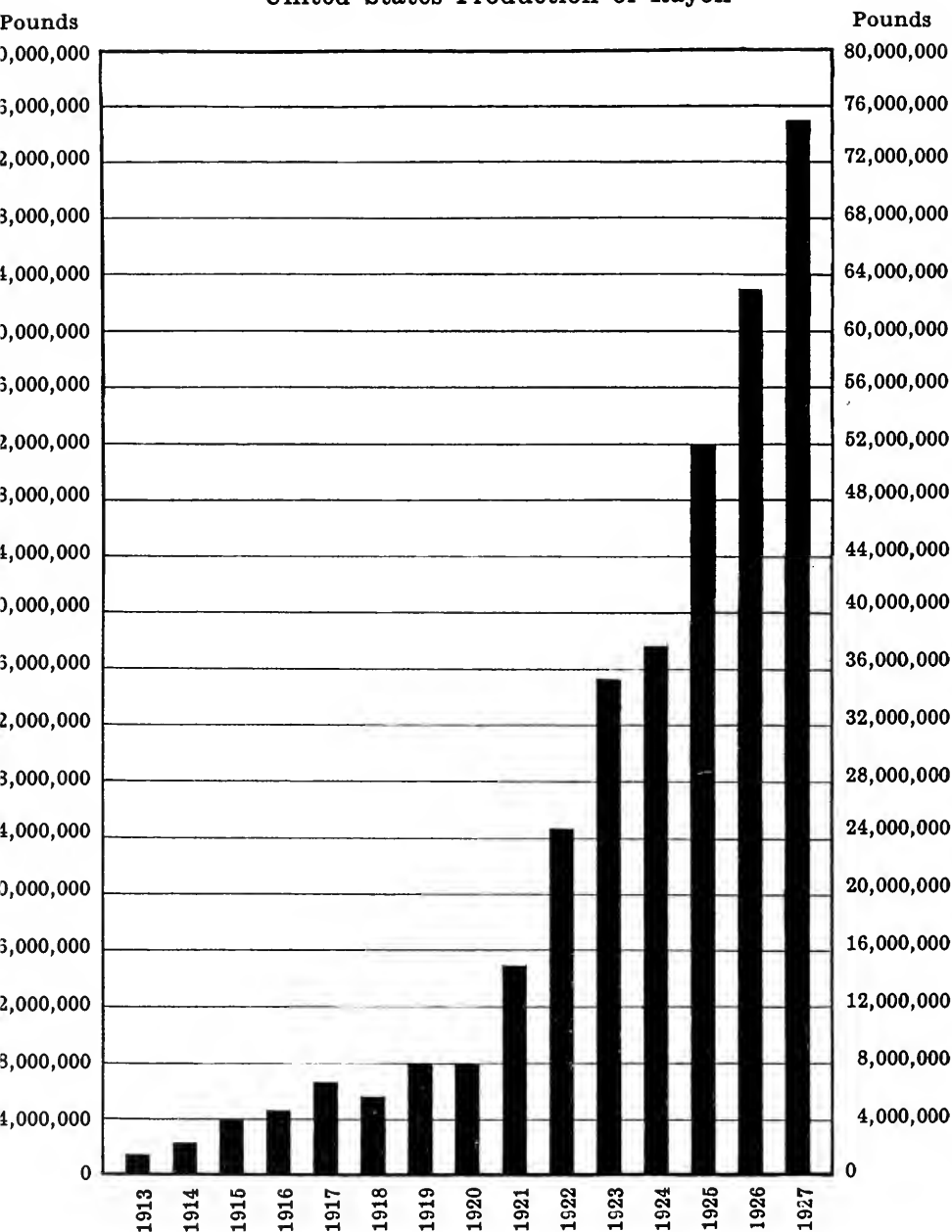
# Indian Yarn Production

[In pounds]

Source: Department of Statistics, India

FISCAL YEARS ENDING MARCH 31	Counts 1-12	Counts 13-15	Counts 16-20	Counts 21-22	Counts 23-32	Counts over 32	Total All Counts
1910-11	207,509,950	44,618,417	70,603,683	193,755,597	78,880,416	14,164,373	609,532,436
1911-12	190,645,627	47,423,898	73,994,852	208,646,131	87,077,316	16,535,131	624,322,955
1912-13	239,721,030	51,689,093	76,859,501	207,838,060	94,751,753	16,901,358	687,760,795
1913-14	233,643,390	49,224,504	78,274,111	211,360,899	95,612,210	14,019,139	682,134,253
1914-15	220,194,466	54,167,997	76,490,272	198,116,252	89,770,944	12,769,510	651,509,441
1915-16	260,337,274	56,961,454	84,882,554	213,351,059	93,935,172	12,305,384	721,773,097
1916-17	219,750,231	57,248,165	85,604,890	200,028,983	100,319,084	17,808,941	680,760,249
1917-18	193,374,553	63,972,185	78,953,407	192,777,637	112,178,003	19,096,551	660,352,336
1918-19	161,285,869	62,346,415	76,268,029	184,250,594	116,623,790	14,034,609	614,809,306
1919-20	174,732,119	55,549,634	82,021,768	205,969,704	104,239,184	12,972,539	635,484,948
1920-21	175,376,300	63,323,383	84,695,402	213,209,760	114,152,207	8,890,653	659,647,705
1921-22	197,376,737	68,290,013	82,730,668	210,635,692	124,443,961	9,493,469	692,970,540
1922-23	191,167,444	70,430,162	83,620,475	227,658,639	123,667,661	9,090,148	705,634,529
1923-24	143,895,315	71,194,892	77,669,761	187,239,780	115,601,798	12,512,473	608,114,019
1924-25	165,030,312	78,205,247	226,574,692	94,823,239	138,667,812	16,088,692	719,389,994
1925-26	160,274,343	75,517,152	208,956,741	89,998,843	134,085,071	16,793,788	685,625,938
1926-27	190,259,504	82,584,545	242,836,791	103,614,305	157,508,417	30,282,556	807,116,118

## United States Production of Rayon





# United States Production and Imports of Rayon

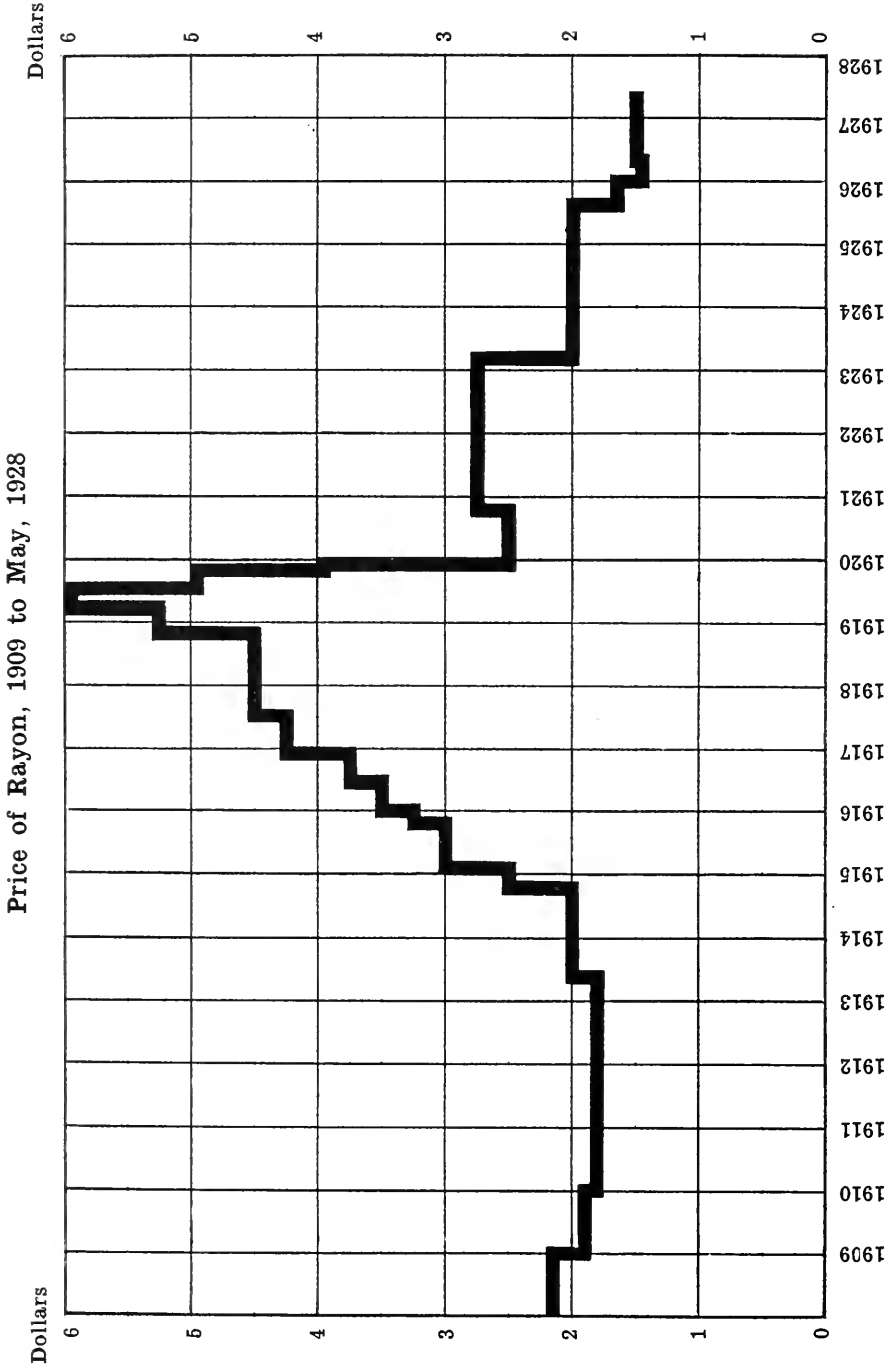
Source: Silk Association of America

YEAR	Production (Pounds)	Imports (Pounds)	Import Valuation (Per Pound)
1913 . . . . .	1,566,000	2,305,000	—
1914 . . . . .	2,445,000	2,923,000	\$1.25
1915 . . . . .	4,111,000	2,718,000	1.21
1916 . . . . .	4,744,000	864,000	1.95
1917 . . . . .	6,687,000	552,000	2.55
1918 . . . . .	5,828,000	93,099	2.69
1919 . . . . .	8,000,000	1,148,513	4.06
1920 . . . . .	8,000,000	1,846,875	3.44
1921 . . . . .	15,000,000	3,667,180	1.66
1922 . . . . .	24,406,400	2,087,775	1.87
1923 . . . . .	35,380,500	3,906,037	1.73
1924 . . . . .	37,719,600	1,711,987	1.34
1925 . . . . .	52,060,000	7,000,521	1.16
1926 . . . . .	62,816,910	10,221,396	.88
1927 . . . . .	75,000,000	16,211,166	.84

# Use of Rayon by Industries

Source: The Viscose Company

	1927 (Per Cent)	1926 (Per Cent)	1925 (Per Cent)	1924 (Per Cent)	1923 (Per Cent)
Cotton . . . . .	24	22½	26	15	11
Hosiery . . . . .	21	22¼	28	23	22
Silk goods . . . . .	14	12	16	18	15
Knitted outerwear . . . . .	4	15¼	5	14	25
Braid . . . . .	2	9¾	4	8	10
Tapestry . . . . .	—	3	4	3	—
Upholstery goods . . . . .	—	—	—	—	2
Underwear . . . . .	28	12	13	11	5
Lace . . . . .	—	½	1	11	5
Webbing . . . . .	—	1	1	—	—
Plush . . . . .	—	—	1	2	2
Woolen goods . . . . .	1	1	1	1	1
Miscellaneous . . . . .	6	—	—	5	7



# List Prices of Rayon Yarn

[Quotations are for 150 denier, A quality, bleached]

Source: The Viscose Company

1909 . . . . .	\$2.15
1910 . . . . .	1.90
1911 . . . . .	1.80
1912 . . . . .	1.80
1913 . . . . .	1.80
April 1, 1914, to September, 1915 . . . . .	2.00
September, 1915, to January, 1916 . . . . .	2.50
January, 1916, to September, 1916 . . . . .	3.00
September, 1916, to December, 1916 . . . . .	3.25
December, 1916, to May, 1917 . . . . .	3.50
May, 1917, to October, 1917 . . . . .	3.75
October, 1917, to June, 1918 . . . . .	4.25
June, 1918, to September, 1919 . . . . .	4.50
September, 1919, to February, 1920 . . . . .	5.25
February, 1920, to June, 1920 . . . . .	5.95
June, 1920, to September, 1920 . . . . .	4.95
September, 1920, to October, 1920 . . . . .	3.95
October, 1920, to September, 1921 . . . . .	2.50
September, 1921, to February, 1924 . . . . .	2.75
February, 1924, to July, 1926 . . . . .	2.00
July, 1926, to November, 1926 . . . . .	1.65
November, 1926, to March, 1927 . . . . .	1.45
March, 1927, to ——— . . . . .	1.50

## World Rayon Production by Countries

Source: United States Department of Commerce and "Textile World"

COUNTRY	1923 (Pounds)	1924 (Pounds)	1925 <sup>1</sup> (Pounds)	1926 <sup>1</sup> (Pounds)	1927 <sup>1</sup> (Pounds)
United States . . . . .	35,400,000	38,750,000	54,700,000	62,575,000	72,000,000
Italy . . . . .	10,000,000	18,480,000	30,000,000	35,000,000	37,000,000
England . . . . .	16,500,000	23,947,000	28,000,000	25,500,000	36,000,000
Germany . . . . .	13,000,000	23,672,000	27,100,000	26,000,000	35,500,000
France . . . . .	7,700,000	12,333,200	14,400,000	17,500,000	19,800,000
Belgium . . . . .	6,000,000	8,874,800	11,100,000	13,100,000	16,500,000
Switzerland . . . . .	3,700,000	4,004,000	5,500,000	8,000,000	9,000,000
Holland . . . . .	2,600,000	3,336,000	4,400,000	13,500,000	16,500,000
Austria . . . . .	—	2,640,000	3,500,000	3,500,000	3,500,000
Poland . . . . .	—	1,540,000	2,200,000	2,000,000	2,750,000
Czecho-Slovakia . . . . .	—	1,293,600	2,000,000	2,800,000	3,500,000
Japan . . . . .	—	1,199,000	1,400,000	5,500,000	9,000,000
Hungary . . . . .	—	616,000	700,000	600,000	—
Spain . . . . .	—	184,800	220,000	300,000	300,000
Sweden . . . . .	—	176,000	176,000	275,000	—
Russia . . . . .	—	88,000	88,000	360,000	—
Other countries . . . . .	2,100,000	—	—	—	—
Total . . . . .	97,000,000	141,414,000	185,484,000	219,080,000	265,900,000

<sup>1</sup> Estimated.

# Growth of the Cotton Manufacturing Industry of the United States

	1899	1904	1909	1914	1919	1921	1923	1925
Invested capital . . . . .	\$467,240,157	\$613,110,655	\$822,237,529	\$899,764,682	\$1,914,919,506	Not collected	Not collected	Not collected
Number of active producing spindles . . . . .	19,050,952	23,155,613	27,395,800	30,815,731	33,718,953	36,017,367 <sup>1</sup>	36,260,001 <sup>1</sup>	35,032,246
Number of concerns . . . . .	1,055	1,151	1,324	1,328	1,496	1,527	1,642	1,638
Number of employees . . . . .	302,861	315,871	378,880	393,401	446,852	425,817	495,197	468,352
Value of product calendar year . . . . .	\$339,200,320	\$150,467,704	\$628,391,813	\$701,300,933	\$2,195,565,881	\$1,330,263,117	\$2,010,141,147	\$1,819,886,390
Consumption of raw cotton and linters (in 500-pound bales). (Cotton year.)	3,687,253	4,523,208	4,759,364	6,087,338	6,807,817	5,108,979	7,312,201	6,852,265
Value of total exports of cotton manufactures. <sup>2</sup>	\$23,566,914	\$22,403,713	\$31,878,566	\$51,467,233	\$273,115,701	\$117,231,512	\$138,045,351	\$148,239,365
Value of total imports of cotton manufactures. <sup>2</sup>	32,054,434	49,521,216	63,231,968	70,701,828	52,652,110	75,430,495	100,153,179	79,271,008

<sup>1</sup> Total active cotton-producing spindles whether in cotton manufacturing industry or not.

<sup>2</sup> Fiscal years ended June 30 up to and including 1914; calendar years thereafter.

## Summary of the Cotton Manufactures Industry for New England, Census of Manufactures, 1925

Source: United States Bureau of the Census, Department of Commerce

	Maine	New Hampshire	Vermont	Massachusetts <sup>1</sup>	Rhode Island	Connecticut	Total
Number of establishments . . . . .	16	23	4	230	150	58	481
Persons engaged . . . . .	12,059	15,534	904	101,691	35,828	15,587	181,003
Proprietors and firm members . . . . .	—	12	—	28	22	—	62
Salaried employees . . . . .	208	535	24	2,724	1,386	814	5,691
Wage earners (average number) . . . . .	11,851	14,987	880	98,939	34,420	14,773	175,850
Salaries and wages . . . . .	\$11,283,764	\$15,436,365	\$954,356	\$102,761,556	\$38,764,895	\$17,300,647	\$186,501,583
Salaries . . . . .	760,037	1,571,136	73,155	8,367,465	4,078,699	2,111,089	16,967,581
Wages . . . . .	10,517,727	13,865,229	881,201	94,394,091	34,686,196	15,189,558	294,321,002
Paid for contract work . . . . .	934,029	113,563	—	1,099,986	1,366,508	270,590	3,784,676
Cost of materials . . . . .	24,306,540	36,607,839	1,957,415	207,924,815	72,487,104	39,584,896	382,868,609
Value of product . . . . .	41,188,496	58,908,960	3,195,418	358,238,885	128,526,645	65,740,674	655,799,078
Value added by manufacture <sup>2</sup> . . . . .	16,881,956	22,301,121	1,238,003	150,314,070	56,039,541	26,155,778	267,939,469

<sup>1</sup> Excludes statistics for one establishment to avoid disclosure of its operations.<sup>2</sup> Value of products less cost of materials.

# Size of Cotton Manufacturing Establishments

[Based on Statistics of United States Bureau of the Census]

	Establish- ments	Wage Earners	Wage Earners per Estab- lishment	Active Spindles (000 omitted)	Active Spindles per Estab- lishment	Looms	Looms per Estab- lishment
1879 .	756	172,544	228	10,653	14,091	225,759	298
1889 .	905	218,876	242	14,188	15,677	324,866	358
1899 .	1,055	302,861	287	19,051	18,058	450,682	427
1904 .	1,154	315,874	274	23,195	20,100	540,910	468
1909 .	1,324	378,880	286	27,426	20,715	632,963	477
1914 .	1,328	393,404	296	30,915	23,279	672,754	506
1919 .	1,496	446,852	299	33,796	22,591	692,169	462
1921 .	1,527	425,817	278	33,071	21,658	— <sup>1</sup>	— <sup>1</sup>
1923 .	1,643	497,378	302	36,260	22,069	— <sup>1</sup>	— <sup>1</sup>
1925 .	1,638	468,352	285	35,023	21,381	— <sup>1</sup>	— <sup>1</sup>

<sup>1</sup> Not available.

## Legal Working Hours for Women

Source: United States Department of Labor

STATE	Daily	Weekly
Alabama . . . . .	No limitation	No limitation
Arizona . . . . .	8	48
Arkansas . . . . .	9	54
California . . . . .	8	48
Colorado . . . . .	8	56
Connecticut . . . . .	10	55
Delaware . . . . .	10	55
District of Columbia . . . . .	8	48
Florida . . . . .	No limitation	No limitation
Georgia . . . . .	10	60
Idaho . . . . .	9	63
Illinois . . . . .	10	70
Indiana . . . . .	No limitation	No limitation
Iowa . . . . .	No limitation	No limitation
Kansas . . . . .	9	49½
Kentucky . . . . .	10	60
Louisiana . . . . .	10	60
Maine . . . . .	9	54
Maryland . . . . .	10	60
Massachusetts . . . . .	9	48
Michigan . . . . .	9	54
Minnesota . . . . .	9	54
Mississippi . . . . .	10	55
Missouri . . . . .	9	54
Montana . . . . .	8	56
Nebraska . . . . .	9	54
Nevada . . . . .	8	56
New Hampshire . . . . .	10½	54
New Jersey . . . . .	10	54
New Mexico . . . . .	8	56
New York <sup>1</sup> . . . . .	8	48
North Carolina . . . . .	11	60
North Dakota . . . . .	8½	48
Ohio . . . . .	9	50
Oklahoma . . . . .	9	54
Oregon . . . . .	9	48
Pennsylvania . . . . .	10	54
Rhode Island . . . . .	10	54
South Carolina . . . . .	10	55
South Dakota . . . . .	10	54
Tennessee . . . . .	10½	57
Texas . . . . .	9	54
Utah . . . . .	8	48
Vermont . . . . .	10½	56
Virginia . . . . .	10	60
Washington . . . . .	8	56
West Virginia . . . . .	No limitation	No limitation
Wisconsin . . . . .	9	50
Wyoming . . . . .	8½	56

NOTE. — The above table applies to women employed in mechanical and manufacturing establishments. Many states provide for overtime in seasonal industries.

<sup>1</sup> Certain exceptions on hours of labor.



# Approximate Value of Foreign Money

Source: The Merchants National Bank of Boston

COUNTRY	Monetary Unit and Fractions	Approximate Par Value of Foreign Unit in United States Dollars	Approximate Value of United States Dollar in Foreign Unit at Par
Argentina <sup>1</sup>	1 Gold peso = 100 Centavos	\$0.9648	1.0362 Gold pesos
	1 Paper peso = 100 Centavos	.4245	2.3537 Paper pesos
Austria	1 Schilling = 100 Groschen	.1407	7.1073 Schillings
Belgium	1 Belga = 100 Centimes	.1390	7.1919 Belgas
Bolivia	1 Boliviano = 100 Centavos	.8893	2.5686 Bolivianos
Brazil <sup>2</sup>	1 Gold milreis = 1,000 Reis	.5462	1.8308 Gold milreis
	1 Paper milreis = 1,000 Reis	.3244	3.0823 Paper milreis
Bulgaria	1 Lev = 100 Stotinki	.1930	5.1813 Leva
Chile <sup>3</sup>	1 Peso = 100 Centavos	.1217	8.2169 Pesos
China <sup>4</sup>	-	-	-
Colombia	1 Peso = 100 Centavos	.9733	1.0274 Pesos
Czecho-Slovakia	1 Krone = 100 Hellers	.2026	4.9351 Kronen
Denmark	1 Krone = 100 Ore	.2680	3.7313 Kroner
Ecuador	1 Sucre = 100 Centavos	.4867	2.0548 Sucres
Egypt <sup>5</sup>	1 Egyptian pound = 100 Piastres	4.9431	.2023 Egyptian pounds
Finland	1 Markka = 100 Pennia	.0252	39.7056 Markka
France	1 Franc = 100 Centimes	.1930	5.1813 Francs
Germany	1 Reichsmark = 100 Pfennige	.2382	4.1979 Reichsmarks
Greece	1 Drachma = 100 Lepta	.1930	5.1813 Drachmas
Great Britain	1 Pound sterling = 20 Shillings	4.8665	0.4114 Pounds sterling
	1 Shilling = 12 Pence	.2433	4.1101 Shillings
Holland	1 Guilder or florin = 100 Cents	.4020	2.4878 Guilders
Honduras	1 Peso = 100 Centavos	.4340	2.3041 Pesos
Hungary	1 Pengo = 100 Garas	.7179	5.1715 Pengos
	1 Rupee = 16 Annas	.4867	2.0530 Rupees
India	1 Anna = 12 Pies	-	-
Italy	1 Paper lira = 100 Centesimi	.0526	.1930 Paper lire
Japan	1 Yen = 100 Sen	.4985	2.0062 Yen
Jugo-Slavia	1 Dinar = 100 Paras	.1930	5.1813 Dinars
Mexico	1 Peso = 100 Centavos	.4985	2.0062 Pesos
Norway	1 Krone = 100 Ore	.2680	3.7313 Kroner
Paraguay <sup>6</sup>	1 Peso = 100 Centavos	.9648	1.0365 Pesos
Persia <sup>7</sup>	1 Kran = 20 Shahis	.0844	11.8483 Krans
	1 Peruvian pound = 10 Soles	4.8665	2.053 Peruvian pounds
Peru	1 Sol = 100 Centavos	.4867	2.0533 Soles
Philippines	1 Peso = 100 Centavos	.5000	2.0000 Pesos
Poland	1 Zloty = 100 Grozy	.1930	5.1813 Zloty
Portugal	1 Escudo = 100 Centavos	1.0805	.9254 Escudos
Roumania	1 Leu = 100 Bani	.1930	5.1813 Lei
Russia	1 Chervonetz = 10 Roubles	5.1460	.1943 Chervontsi
Spain	1 Peseta = 100 Centimos	.1930	5.1813 Pesetas
Sweden	1 Krona = 100 Ore	.2680	3.7313 Kronor
Switzerland	1 Franc = 100 Centimes	.1930	5.1813 Francs
Turkey	1 Turkish pound = 100 Piastres	4.3900	.2273 Turkish pounds
	1 Piastre = 40 Paras	.0439	22.7272 Piastres
Uruguay <sup>8</sup>	1 Peso = 100 Centesimos	1.0342	.9671 Pesos
Venezuela	1 Bolivar = 100 Centimos	.1930	5.1813 Bolivares

<sup>1</sup> Currency in circulation is paper, normally convertible into gold at the rate of 44 gold pesos to 100 paper pesos.

<sup>2</sup> Currency is the paper milreis, which being inconvertible fluctuates in value.

<sup>3</sup> Circulation is the paper peso, which being inconvertible fluctuates in value.

<sup>4</sup> There is no uniform currency in China, the Mexican silver dollar being mostly used. The British dollar, termed Hongkong currency, has the same legal value as the Mexican dollar in Hongkong and the Straits settlements, and usually prevails at about 50 cents United States gold.

<sup>5</sup> The actual standard is the pound sterling which is legal tender for 97½ piastres.

<sup>6</sup> Nominally the monetary system is based on gold pesos of the above value. Actual circulation however, is practically confined to paper notes, which being irredeemable have depreciated to the approximate value of 2 cents United States currency.

<sup>7</sup> Circulation is silver at above its metallic value.

<sup>8</sup> Currency is inconvertible paper.

NOTE. — Foreign money values are all subject to fluctuations.

## Statistical History of the American Cotton Industry

	YEAR	Number of Estab- lishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (THOUSANDS)		Looms	Imports of Cotton Manu- factures (Thousands)
					Northern States	United States		
1	1790 .	-	-	-	-	-	-	-
2	1800 .	-	-	-	-	-	-	-
3	1810 .	-	-	-	-	-	-	-
4	1820 .	-	-	-	-	-	-	-
5	1830 .	-	-	-	-	-	-	\$7,865
6	1840 .	1,240	\$46,350	72,119	2,104	2,285	-	6,504
7	1850 .	1,094	61,869	92,286	3,733	3,998	-	20,781
8	1860 .	1,091	115,682	122,028	4,912	5,236	126,313	33,216
9	1870 .	956	177,490	135,369	6,804	7,132	157,310	23,380
10	1871 .	-	-	-	-	-	-	-
11	1872 .	-	-	-	-	-	-	-
12	1873 .	-	-	-	-	-	-	-
13	1874 .	-	-	-	-	-	-	-
14	1875 .	-	-	-	-	-	-	-
15	1876 .	-	-	-	-	-	-	-
16	1877 .	-	-	-	-	-	-	-
17	1878 .	-	-	-	-	-	-	-
18	1879 .	756	192,090	174,659	-	-	-	-
19	1880 .	-	-	-	10,092	10,653	225,759	-
20	1881 .	-	-	-	-	-	-	-
21	1882 .	-	-	-	-	-	-	34,351
22	1883 .	-	-	-	11,800	12,660	-	36,854
23	1884 .	-	-	-	12,250	13,300	-	29,075
24	1885 .	-	-	-	12,250	13,375	-	27,197
25	1886 .	-	-	-	12,250	13,400	-	29,709
26	1887 .	-	-	-	12,300	13,500	-	28,940
27	1888 .	-	-	-	12,300	13,550	-	28,918
28	1889 .	905	267,982	218,876	12,700	14,060	-	26,806
29	1890 .	-	-	-	12,814	14,384	324,866	29,918
30	1891 .	-	-	-	12,900	14,640	-	29,713
31	1892 .	-	-	-	13,250	15,200	-	28,324
32	1893 .	-	-	-	13,450	15,550	-	33,638
33	1894 .	-	-	-	13,500	15,700	-	22,440
34	1895 .	-	-	-	13,700	16,100	-	33,297
35	1896 .	-	-	-	13,800	16,650	-	32,643
36	1897 .	-	-	-	13,900	17,150	-	34,601
37	1898 .	-	-	-	13,900	17,450	-	27,420
38	1899 .	1,055	339,200	302,861	14,150	18,100	-	32,265

# Statistical History of the American Cotton Industry — (Continued)

Exports of Cotton Manu- factures (Thousands)	Crop (Bales) (Thousands)	CONSUMPTION BY MILLS (BALES) (THOUSANDS)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price	
		Northern States	United States					
—	3	—	—	—	—	26.0	—	1
—	73	—	—	—	—	44.0	—	2
—	178	—	—	—	—	15.5	—	3
—	335	—	—	—	—	14.3	—	4
\$1,318	732	—	—	—	—	9.7	—	5
3,550	1,348	166	237	—	—	9.5	—	6
4,734	2,136	497	575	—	—	12.1	7.87	7
10,935	3,841	751	845	—	—	13.0	8.75	8
3,787	4,025	728	797	8,885	199	17.0	14.58	9
—	2,757	1,072	1,163	7,558	148	16.2	13.00	10
—	3,651	977	1,097	8,483	189	21.4	14.27	11
—	3,874	1,063	1,201	9,510	180	19.1	13.31	12
—	3,528	1,192	1,320	11,764	148	16.2	11.42	13
—	4,303	1,071	1,201	11,934	191	15.0	10.41	14
—	4,118	1,220	1,354	11,677	168	12.1	8.85	15
—	4,494	1,302	1,429	12,133	164	11.3	8.46	16
—	4,745	1,345	1,496	12,344	191	10.8	7.80	17
—	5,466	1,379	1,561	14,480	181	10.4	7.97	18
—	6,357	1,382	1,570	15,951	185	11.8	8.51	19
—	5,136	1,713	1,938	16,711	150	10.8	8.51	20
13,223	6,833	1,677	1,964	16,277	186	11.8	8.45	21
12,951	5,522	1,759	2,072	16,778	165	10.1	8.32	22
11,885	5,477	1,537	1,877	17,440	154	11.0	7.28	23
11,837	6,369	1,437	1,753	18,301	164	10.7	6.75	24
13,960	6,315	1,781	2,162	18,455	170	9.4	6.75	25
14,929	6,885	1,687	2,088	18,641	183	10.0	7.15	26
13,013	6,924	1,805	2,261	19,059	180	10.3	7.25	27
10,213	7,473	1,790	2,270	20,175	160	10.4	7.00	28
9,999	8,562	1,979	2,518	19,512	187	11.3	7.00	29
13,605	8,941	2,027	2,640	19,059	179	9.9	6.83	30
13,226	6,658	2,172	2,856	15,911	209	7.8	6.50	31
11,809	7,433	1,652	2,375	19,525	150	8.4	5.90	32
14,341	10,026	1,580	2,291	23,688	195	7.7	5.11	33
13,790	7,147	2,019	2,871	20,185	156	6.2	5.74	34
16,837	8,516	1,605	2,505	23,273	185	8.1	5.45	35
21,038	10,985	1,793	2,792	24,320	183	7.7	4.73	36
17,024	11,435	2,211	3,465	24,967	221	6.3	4.20	37
23,567	9,460	2,217	3,632	24,327	184	6.1	5.28	38

# **Statistical History of the American Cotton Industry — (Continued)**

	YEAR	Number of Estab- lishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (THOUSANDS)		Looms	Imports of Cotton Manu- factures (Thousands)
					Northern States	United States		
1	1900 .	—	—	—	15,104	19,472	455,752	\$41,541
2	1901 .	—	—	—	14,700	20,200	—	40,436
3	1902 .	—	—	—	15,000	21,400	—	44,956
4	1903 .	—	—	—	15,100	22,000	—	53,269
5	1904 .	1,154	\$450,468	315,874	15,200	22,850	540,910	50,370
6	1905 .	—	—	—	16,056	23,687	—	50,162
7	1906 .	—	—	—	16,255	25,250	—	64,399
8	1907 .	—	—	—	16,847	26,375	—	74,747
9	1908 .	—	—	—	17,304	27,505	—	68,825
10	1909 .	1,324	628,392	378,880	17,589	28,018	632,963	63,232
11	1910 .	—	—	—	17,773	28,267	—	68,053
12	1911 .	—	—	—	18,438	29,523	—	66,997
13	1912 .	—	—	—	18,996	30,579	—	65,153
14	1913 .	—	—	—	19,293	31,520	—	66,066
15	1914 .	1,328	701,301	393,404	19,396	32,107	672,754	70,705
16	1915 .	—	—	—	19,008	31,964	—	46,205
17	1916 .	—	—	—	19,424	32,806	—	53,751
18	1917 .	—	—	—	19,733	33,889	—	53,825
19	1918 .	—	—	—	20,014	34,543	—	40,701
20	1919 .	1,496	2,195,566	446,852	20,085	34,931	692,169	52,652
21	1920 .	—	—	—	20,250	35,481	—	137,583
22	1921 .	1,527	1,330,263	425,817	20,338	36,047	—	75,430
23	1922 .	—	—	—	19,802	35,708	—	87,070
24	1923 .	1,643	2,010,141	495,197	19,950	36,260	—	100,153
25	1924 .	—	—	—	18,905	35,849	—	90,914
26	1925 .	1,638	1,819,886	468,352	17,740	35,032	—	79,271
27	1926 .	—	—	—	17,176	34,750	—	67,159
28	1927 .	—	—	—	16,515	34,410	—	66,196

The figures in this table are not all precisely comparable throughout the entire period shown but are presented to show in a general way the changes which have taken place in the industry. The data are from various sources, largely official.

**Statistical History of the American Cotton Industry —  
(Concluded)**

Exports of Cotton Manu- factures (Thousands)	Crop (Bales) (Thousands)	CONSUMPTION BY MILLS (BALES) (THOUSANDS)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price	
		Northern States	United States					
\$24,003	10,267	2,350	3,873	24,933	194	9.1	6.05	1
20,272	9,776	1,964	3,547	26,774	170	8.1	5.54	2
32,108	10,827	2,066	4,083	27,175	187	8.2	5.48	3
32,216	10,046	1,966	3,924	27,052	174	12.2	6.25	4
22,404	13,680	2,046	3,935	31,215	206	8.7	7.13	5
49,666	10,805	2,139	4,279	27,110	187	10.9	7.00	6
52,944	13,595	2,536	4,909	31,374	203	10.0	7.25	7
32,305	11,375	2,574	4,985	29,660	179	11.5	7.62	8
25,178	13,587	2,352	4,539	32,444	195	9.2	6.75	9
31,879	10,315	2,687	5,241	30,938	154	14.3	7.37	10
33,397	12,006	2,388	4,622	32,403	171	14.0	7.87	11
40,852	16,250	2,249	4,498	36,045	208	9.6	7.98	12
50,770	14,313	2,493	5,129	34,283	191	11.5	7.79	13
51,510	14,795	2,621	5,483	37,089	182	12.5	8.05	14
49,246	16,992	2,652	5,577	36,832	209	7.3	7.68	15
70,247	12,123	2,570	5,597	31,412	170	11.2	6.74	16
127,052	12,781	2,870	6,398	34,985	157	17.3	9.18	17
157,267	12,428	2,900	6,789	33,841	160	27.1	14.50	18
179,106	12,970	2,869	6,566	36,008	160	28.8	23.38	19
270,235	12,029	2,567	5,766	33,566	162	35.4	22.60	20
398,458	13,880	2,837	6,420	35,878	178	15.8	23.08	21
115,539	8,351	1,895	4,893	30,509	125	16.9	12.80	22
136,778	10,370	2,180	5,910	33,036	141	22.9	13.63	23
136,300	10,808	2,418	6,666	37,123	131	28.7	16.50	24
130,808	14,488	1,822	5,681	41,360	157	22.9	14.47	25
146,272	17,218	1,973	6,193	46,053	167	19.6	13.20	26
128,877	19,137	1,955	6,456	47,087	182	12.5	11.16	27
133,059	12,955	1,996	7,190	40,138	154	—	10.95	28



# TECHNICAL

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## FOREWORD

In the Year Book of 1928 have been included those charts and tables of engineering data which the experience of previous years has shown to be useful to those engaged in cotton manufacturing.

The introduction of rayon into the industry has given rise to new problems which call for special consideration. Thus far attention has been given only to the identification of such fibers. An attempt will be made in the next issue to provide data on the strength and elasticity characteristics of the various rayons and other artificial silks. At present, in view of the rapid changes being made in the fibers, the presentation of such information is not feasible.

R. G. KNOWLAND, *Chairman*  
*Technical Committee*

## INTRODUCTION

The Technical Section of the Year Book presents in condensed form many of the standard tables on production that we believe will be of use to the cotton manufacturer. In addition there are tables giving the constructions of many of the standard cloths reported by the Cotton-Textile Institute, Inc., and the Association of Cotton Textile Merchants of New York; Standard Test Methods for Testing Textile Materials in use by the Federal Specifications Board; Yarn Test Methods approved by the American Society for Testing Materials; data on the conversion of yarn numbers from one system to another; methods of identification of rayon; breaking strength tables for yarn and other miscellaneous information.

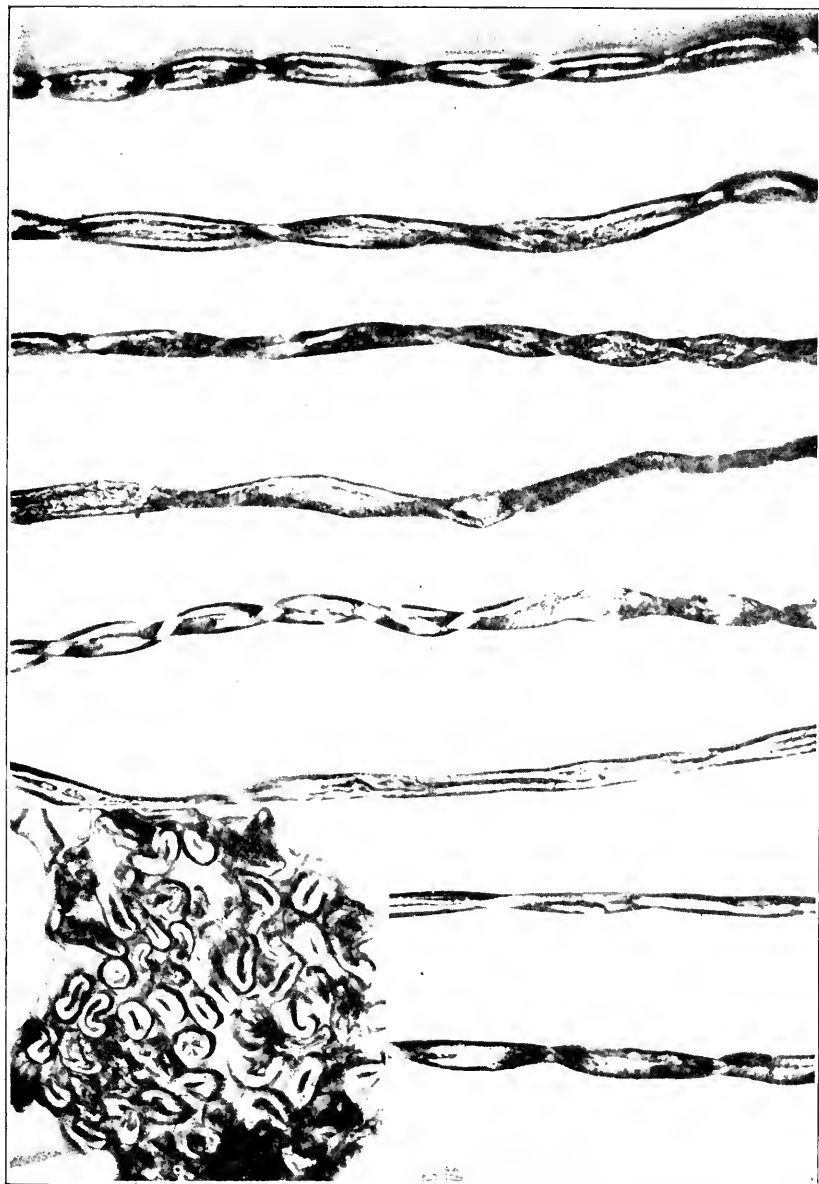
Acknowledgment has been made in most cases where the data are used. In addition we are indebted to Prof. George B. Haven, Gilbert R. Merrill, The Cotton Research Company, Textile World, Saco-Lowell Shops, Whitin Machine Works, Draper Corporation, H. & B. American Machine Company, U. S. Testing Company, The Silk Association of America, Fales & Jenks Machine Company, and the American Society for Testing Materials, for their courtesy in giving permission to republish certain of their tables.



## Upland Cotton Fiber

Longitudinal Appearance and Cross-Sections  
[Magnification 250]

Courtesy of The Cotton Research Company



## Weight Equivalents

Corrected to second decimal place

1 ounce = 437.5 grains = 28.35 grams	9 ounces = 3937.5 grains = 255.14 grams
1½ ounces = 656.25 grains = 42.52 grams	9½ ounces = 4156.25 grains = 269.32 grams
2 ounces = 875.0 grains = 56.70 grams	10 ounces = 4375.0 grains = 283.50 grams
2½ ounces = 1093.75 grains = 70.87 grams	10½ ounces = 4593.75 grains = 297.67 grams
3 ounces = 1312.5 grains = 85.05 grams	11 ounces = 4812.5 grains = 311.84 grams
3½ ounces = 1531.25 grains = 99.22 grams	11½ ounces = 5031.25 grains = 326.02 grams
4 ounces = 1750.0 grains = 113.40 grams	12 ounces = 5250.0 grains = 340.19 grams
4½ ounces = 1968.75 grains = 127.57 grams	12½ ounces = 5468.75 grains = 354.37 grams
5 ounces = 2187.5 grains = 141.75 grams	13 ounces = 5687.5 grains = 368.54 grams
5½ ounces = 2406.25 grains = 155.92 grams	13½ ounces = 5906.25 grains = 382.71 grams
6 ounces = 2625.0 grains = 170.10 grams	14 ounces = 6125.0 grains = 396.89 grams
6½ ounces = 2843.75 grains = 184.27 grams	14½ ounces = 6343.75 grains = 411.06 grams
7 ounces = 3062.5 grains = 198.44 grams	15 ounces = 6562.5 grains = 425.24 grams
7½ ounces = 3281.25 grains = 212.62 grams	15½ ounces = 6781.25 grains = 439.41 grams
8 ounces = 3500.0 grains = 226.79 grams	16 ounces = 7000.0 grains = 453.59 grams
8½ ounces = 3718.75 grains = 240.97 grams	

## Reference Data

Millimeters  $\times .03937$  = inches or millimeters  $\div 25.4$  = inches.

Centimeters  $\times .3937$  = inches or centimeters  $\div 2.54$  = inches.

Meters  $\times 39.37$  = inches or meters  $\times 3.281$  = feet.

Kilometers  $\times .621$  = miles.

Square centimeters  $\times .155$  = square inches or square meters  $\times 10.764$  = square feet.

Cubic meters  $\times 35.315$  = cubic feet or cubic meters  $\times 1.308$  = cubic yards.

Liters  $\times .2642$  = gallons (231 cubic inches).

Grams  $\times 15.432$  = grains or grams  $\div 28.35$  = ounces avoirdupois.

Kilograms  $\times 2.2046$  = pounds or kilograms  $\div 907.2$  = tons (2,000 pounds).

Kilowatts  $\times 1.34$  = horse power or watts  $\div 746$  = horse power.

Calorie  $\times 3.968$  = British Thermal Unit.

1 Pint of water weighs 1.045 pounds.

1 Gallon of water = .1339 cubic feet = 8.36 pounds of water at 62° F.

1 Mile = 5,280 feet.

1 Pound (avoirdupois) = 7,000 grains = 453.6 grams.

1 Horse Power = 33,000 foot pounds of work done per minute = 746 watts.

The pressure of one atmosphere = 14.7 pounds per square inch, = 2,116 pounds per square foot, = a column of mercury 760 millimeters high.

A column of water 2.3 feet high corresponds to a pressure of 1 pound per square inch.

## Conversion of Thermometer Readings

F°	C°	F°	C°	F°	C°	F°	C°	F°	C°	F°	C°
-40	-40.00	30	-1.11	80	26.67	250	121.11	500	260.00	900	482.22
-38	-38.89	31	-0.56	81	27.22	255	123.89	505	262.78	910	487.78
-36	-37.78	32	0.00	82	27.78	260	126.67	510	265.56	920	493.33
-34	-36.67	33	0.56	83	28.33	265	129.44	515	268.33	930	498.89
-32	-35.56	34	1.11	84	28.89	270	132.22	520	271.11	940	504.44
-30	-34.44	35	1.67	85	29.44	275	135.00	525	273.89	950	510.00
-28	-33.33	36	2.22	86	30.00	280	137.78	530	276.67	960	515.56
-26	-32.22	37	2.78	87	30.56	285	140.55	535	279.44	970	521.11
-24	-31.11	38	3.33	88	31.11	290	143.33	540	282.22	980	526.67
-22	-30.00	39	3.89	89	31.67	295	146.11	545	285.00	990	532.22
-20	-28.89	40	4.44	90	32.22	300	148.89	550	287.78	1000	537.78
-18	-27.78	41	5.00	91	32.78	305	151.67	555	290.55	1050	565.56
-16	-26.67	42	5.56	92	33.33	310	154.44	560	293.33	1100	593.33
-14	-25.56	43	6.11	93	33.89	315	157.22	565	296.11	1150	621.11
-12	-24.44	44	6.67	94	39.44	320	160.00	570	298.89	1200	648.89
-10	-23.33	45	7.22	95	35.00	325	162.78	575	301.67	1250	676.67
-8	-22.22	46	7.78	96	35.56	330	165.56	580	304.44	1300	704.44
-6	-21.11	47	8.33	97	36.11	335	168.33	585	307.22	1350	732.22
-4	-20.00	48	8.89	98	36.67	340	171.11	590	310.00	1400	760.00
-2	-18.89	49	9.44	99	37.22	345	173.89	595	312.78	1450	787.78
0	-17.78	50	10.00	100	37.78	350	176.67	600	315.56	1500	815.56
1	-17.22	51	10.56	105	40.55	355	179.44	610	321.11	1550	843.33
2	-16.67	52	11.11	110	43.33	360	182.22	620	326.67	1600	871.11
3	-16.11	53	11.67	115	46.11	365	185.00	630	332.22	1650	898.89
4	-15.56	54	12.22	120	48.89	370	187.78	640	337.78	1700	926.67
5	-15.00	55	12.78	125	51.67	375	190.55	650	343.33	1750	954.44
6	-14.44	56	13.33	130	54.44	380	193.33	660	348.89	1800	982.22
7	-13.89	57	13.89	135	57.22	385	196.11	670	354.44	1850	1010.00
8	-13.33	58	14.44	140	60.00	390	198.89	680	360.00	1900	1037.78
9	-12.78	59	15.00	145	62.78	395	201.67	690	365.56	1950	1065.56
10	-12.22	60	15.56	150	65.56	400	204.44	700	371.11	2000	1093.33
11	-11.67	61	16.11	155	68.33	405	207.22	710	376.67	2050	1121.11
12	-11.11	62	16.67	160	71.11	410	210.00	720	382.22	2100	1148.89
13	-10.56	63	17.22	165	73.89	415	212.78	730	387.78	2150	1176.67
14	-10.00	64	17.78	170	76.67	420	215.56	740	393.33	2200	1204.44
15	-9.44	65	18.33	175	79.44	425	218.33	750	398.89	2250	1232.22
16	-8.89	66	18.89	180	82.22	430	221.11	760	404.44	2300	1260.00
17	-8.33	67	19.44	185	85.00	435	223.89	770	410.00	2350	1287.78
18	-7.78	68	20.00	190	87.78	440	226.67	780	415.56	2400	1315.56
19	-7.22	69	20.56	195	90.55	445	229.44	790	421.11	2450	1343.33
20	-6.67	70	21.11	200	93.33	450	232.22	800	426.67	2500	1371.11
21	-6.11	71	21.67	205	96.11	455	235.00	810	432.22	2550	1398.89
22	-5.56	72	22.22	212	100.00	460	237.78	820	437.78	2600	1426.67
23	-5.00	73	22.78	215	101.67	465	240.55	830	443.33	2650	1454.44
24	-4.44	74	23.33	220	104.44	470	243.33	840	448.89	2700	1482.22
25	-3.89	75	23.89	225	107.22	475	246.11	850	454.44	2750	1510.00
26	-3.33	76	24.44	230	110.00	480	248.89	860	460.00	2800	1537.78
27	-2.78	77	25.00	235	112.78	485	251.67	870	465.56	2850	1565.56
28	-2.22	78	25.56	240	115.56	490	254.44	880	471.11	2900	1593.33
29	-1.67	79	26.11	245	118.33	495	257.22	890	476.67	2950	1621.11

**Specific Gravity, Degrees Twaddle and Degrees Beaumé**

English Standard 15°C.

Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity
0	0	1.000	44	26.0	1.220	88	44.1	1.440	132	57.4	1.660
1	0.7	1.005	45	26.4	1.225	89	44.4	1.445	133	57.7	1.665
2	1.4	1.010	46	26.9	1.230	90	44.8	1.450	134	57.9	1.670
3	2.1	1.015	47	27.4	1.235	91	45.1	1.455	135	58.2	1.675
4	2.7	1.020	48	27.9	1.240	92	45.4	1.460	136	58.4	1.680
5	3.4	1.025	49	28.4	1.245	93	45.8	1.465	137	58.7	1.685
6	4.1	1.030	50	28.8	1.250	94	46.1	1.470	138	58.9	1.690
7	4.7	1.035	51	29.3	1.255	95	46.4	1.475	139	59.2	1.695
8	5.4	1.040	52	29.7	1.260	96	46.8	1.480	140	59.5	1.700
9	6.0	1.045	53	30.2	1.265	97	47.1	1.485	141	59.7	1.705
10	6.7	1.050	54	30.6	1.270	98	47.4	1.490	142	60.0	1.710
11	7.4	1.055	55	31.1	1.275	99	47.8	1.495	143	60.2	1.715
12	8.0	1.060	56	31.5	1.280	100	48.1	1.500	144	60.4	1.720
13	8.7	1.065	57	32.0	1.285	101	48.4	1.505	145	60.6	1.725
14	9.4	1.070	58	32.4	1.290	102	48.7	1.510	146	60.9	1.730
15	10.0	1.075	59	32.8	1.295	103	49.0	1.515	147	61.1	1.735
16	10.6	1.080	60	33.3	1.300	104	49.4	1.520	148	61.4	1.740
17	11.2	1.085	61	33.7	1.305	105	49.7	1.525	149	61.6	1.745
18	11.9	1.090	62	34.2	1.310	106	50.0	1.530	150	61.8	1.750
19	12.4	1.095	63	34.6	1.315	107	50.3	1.535	151	62.1	1.755
20	13.0	1.100	64	35.0	1.320	108	50.6	1.540	152	62.3	1.760
21	13.6	1.105	65	35.4	1.325	109	50.9	1.545	153	62.5	1.765
22	14.2	1.110	66	35.8	1.330	110	51.2	1.550	154	62.8	1.770
23	14.9	1.115	67	36.2	1.335	111	51.5	1.555	155	63.0	1.775
24	15.4	1.120	68	36.6	1.340	112	51.8	1.560	156	63.2	1.780
25	16.0	1.125	69	37.0	1.345	113	52.1	1.565	157	63.5	1.785
26	16.5	1.130	70	37.4	1.350	114	52.4	1.570	158	63.7	1.790
27	17.1	1.135	71	37.8	1.355	115	52.7	1.575	159	64.0	1.795
28	17.7	1.140	72	38.2	1.360	116	53.0	1.580	160	64.2	1.800
29	18.3	1.145	73	38.6	1.365	117	53.3	1.585	161	64.4	1.805
30	18.8	1.150	74	39.0	1.370	118	53.6	1.590	162	64.6	1.810
31	19.3	1.155	75	39.4	1.375	119	53.9	1.595	163	64.8	1.815
32	19.8	1.160	76	39.8	1.380	120	54.1	1.600	164	65.0	1.820
33	20.3	1.165	77	40.1	1.385	121	54.4	1.605	165	65.2	1.825
34	20.9	1.170	78	40.5	1.390	122	54.7	1.610	166	65.5	1.830
35	21.4	1.175	79	40.8	1.395	123	55.0	1.615	167	65.7	1.835
36	22.0	1.180	80	41.2	1.400	124	55.2	1.620	168	65.9	1.840
37	22.5	1.185	81	41.6	1.405	125	55.5	1.625	169	66.1	1.845
38	23.0	1.190	82	42.0	1.410	126	55.8	1.630	170	66.3	1.850
39	23.5	1.195	83	42.3	1.415	127	56.0	1.635	171	66.5	1.855
40	24.0	1.200	84	42.7	1.420	128	56.3	1.640	172	66.7	1.860
41	24.5	1.205	85	43.1	1.425	129	56.6	1.645	173	67.0	1.865
42	25.0	1.210	86	43.4	1.430	130	56.9	1.650			
43	25.5	1.215	87	43.8	1.435	131	57.1	1.655			

### Approximate Power required for Cotton Machinery

	Horse Power
Bale Breaker . . . . .	3-5
Self-Feeding Openers . . . . .	3
Combined Self-Feeding Opener and Single Beater Breaker Lapper	9
40" Single Beater Intermediate or Finisher Lapper . . . . .	5
Two-Beater Intermediate or Finisher Lapper . . . . .	10-12
Waste Picker . . . . .	3
Thread Extractor with Condenser . . . . .	2
40" Revolving Flat Card, Production 750 lbs. per week . . . . .	1
Sliver Lap Machine . . . . .	$\frac{1}{2}$
Ribbon Lap Machine . . . . .	1
Comber 6-head . . . . .	$\frac{1}{2}$
Comber 8-head . . . . .	$\frac{2}{3}$
Drawing Frames 4 to 5 deliveries per . . . . .	1
Slubber Frames 40 to 45 spindles per . . . . .	1
Intermediate Frames 55 to 60 spindles per . . . . .	1
Roving Frames 70 to 85 spindles per . . . . .	1
Jack or Fine Roving Frames 100 spindles per . . . . .	1
Ring Spinning Frames:	
6,000 r. p. m. (Filling) 110 spindles per . . . . .	1
7,000 r. p. m. (Filling) 100 spindles per . . . . .	1
8,000 r. p. m. (Warp) 90 spindles per . . . . .	1
8,500 r. p. m. (Warp) 80 spindles per . . . . .	1
9,000 r. p. m. (Warp) 70 spindles per . . . . .	1
10,000 r. p. m. (Warp) 60 spindles per . . . . .	1
Mule, 720 spindles per . . . . .	$7\frac{1}{2}$
Twisters 10 to 50 spindles per . . . . .	1
Cone Winders 65 drums per . . . . .	1
Spoolers 200 to 300 spindles per . . . . .	1
Warpers . . . . .	$\frac{1}{4}-\frac{1}{2}$
Ball Warpers . . . . .	$\frac{1}{2}$
Slasher . . . . .	2
Looms:	
32" and 36" . . . . .	$\frac{1}{4}$
40" and 48" . . . . .	$\frac{1}{3}$
80" . . . . .	$\frac{1}{2}$
92" to 108" . . . . .	$\frac{3}{4}-1$
Brusher . . . . .	1
Brusher and Shearer . . . . .	3
Cloth Folder . . . . .	$\frac{1}{3}-\frac{1}{2}$

NOTE. — The above figures are only approximate, but they give a fair average of the power required to drive the various machines. The speed production and many other conditions affect the power consumed. For Friction of Belting and Shafting add from 18 to 22 per cent.

### Card Settings

The following settings give the usual range for carding. Individual mill conditions must govern the actual setting.

	Inches
Feed plate from lickerin . . . . .	7/1000-17/1000
Mote knives from lickerin . . . . .	17/1000-22/1000
Lickerin from cylinder . . . . .	7/1000-10/1000
Lickerin screen from lickerin . . . . .	29/1000- 1/8
Cylinder screen from cylinder:	
Lickerin end . . . . .	17/1000-29/1000
Middle . . . . .	30/1000-58/1000
Doffer end . . . . .	34/1000- 3/16
Doffer from cylinder . . . . .	5/1000- 7/1000
Doffer comb from doffer . . . . .	10/1000-22/1000
Flats from cylinder . . . . .	7/1000-12/1000

### Card Clothing Data

English Counts	Points per Square Foot	American Number of Wire
60s	43,200	28
70s	50,400	30
80s	57,600	31
90s	64,800	32
100s	72,000	33
110s	79,200	34
120s	86,400	35
130s	93,600	36

### Counts ordinarily used

	Cylinders	Doffers	Flats
Coarse yarns . . . . .	90s to 100s	100s to 110s	90s to 100s
Medium yarns . . . . .	100s to 110s	110s to 120s	100s to 110s

Common and Range of Production for Cotton Machinery

MACHINE	Range of Draft	Common Draft	Range of Production (10 Hours)	Common Production (10 Hours)	Per Cent Waste	Range of Speeds R. P. M.	Common Speeds R. P. M.	Range of Sizes	Common Sizes	Per Cent Stops	
Bale opener . . .	-	-	4,000-10,000	5,000-7,000	-	-	-	-	-	10	
Breaker picker . . .	-	2	1,500-3,000	2,000	2.5-3	9" Cal. Roll 4-8	6	10-20	13-16	5	
Intermediate picker	3-5	4	1,000-2,500	1,200-1,600	1.5-2	4-8	6	10-20	12-15	5	
Finisher picker . . .	3-5	4	1,000-2,500	1,200-1,600	1.5-2	4-8	6	10-20	11-14	10	
Card . . .	85-130	90-110	30-200	85-150	4-12 (5-6)	27" Doffer	6-12	Grains	50-60	5	
Sliver lapper (20 ends)	1 <sup>3</sup> -2 <sup>1</sup> / <sub>2</sub>	2-2 <sup>1</sup> / <sub>2</sub>	750-1,200	1,000	1	4-18	90-100	30-100	450-600	25	
Ribbon lapper (4 head)	3-5	4	750-1,200	1,000	1	5" Press Roll 90-100	90-100	350-800	450-600	25	
Comb (8 head) . . .	40-80	60	80-150	100-128	Noil 8-30 Common 12-18	Nips 90-130	100	Grains	50-60	5	
Draw frame (6 ends)	4-8	6	75-300	100-150	Less than 1	Front Roll 275-375	300-330	40-70	50-60	20-25	
Slubber . . .	3-5	4	For Production figures see pages 196, 197, 198, 199, 200, 201		Less than 1	Sp. Speed 600-800	Sp. Speed 600-800	Hank	Hank	15-20	
Intermediate . . .	4-6	5			Less than 1	800-1,000	800-1,000	.25-1.0	.4-1.0	12-15	
Fine . . .	5-7	6			Less than 1	1,000-1,200	1,000-1,200	1-2.5	1-2.5	4-12	
Jack . . .	6-8	7			Less than 1	1,200-1,500	1,200-1,500	2.5-6.0	2.5-6.0	7-9	
Ring spinning . . .	6-20	8-12				4,000-10,000	4,000-10,000	and up	and up	10	
Mule . . .	6-20	8-12				4,000-10,000	4,000-10,000	4's-140	4's-140	12	
						4,000-10,000	4,000-10,000	15's-400	15's-400		
						4,000-10,000	4,000-10,000	15's-400	15's-400		

## Range of Production of Roving Frames

## SLUBBER (12 x 6 Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours <sup>1</sup>
.25	.50- .60	267-322	17.24-17.54	11.85-13.30	47.4 -53.21
.30	.55- .66	243-292	14.59-14.87	12.03-13.37	40.11-44.57
.35	.59- .71	226-273	12.55-12.81	12.08-13.42	34.52-38.36
.40	.63- .76	211-255	10.88-11.12	11.97-13.46	29.93-33.66
.45	.67- .80	201-240	9.60- 9.83	11.88-13.25	26.39-29.45
.50	.71- .85	189-226	8.44- 8.73	11.61-13.09	23.21-26.18
.55	.74- .89	180-217	7.54- 7.72	11.40-12.96	20.72-23.57
.60	.78- .93	173-206	6.77- 7.00	11.17-12.52	18.61-20.87
.65	.81- .97	165-199	6.11- 6.27	10.92-12.33	16.80-18.98
.70	.84-1.00	160-191	5.59- 5.74	10.75-12.16	15.36-17.38
.75	.87-1.04	154-185	5.09- 5.23	10.49-11.90	13.99-15.87
.80	.90-1.07	150-179	4.69- 4.82	10.31-11.56	12.89-14.46

## SLUBBER (11 x 5½ Bobbin)

.40	.63- .76	234-277	14.53-14.54	11.62-12.64	29.06-31.60
.45	.67- .80	223-260	13.02 -	11.71-12.55	26.04-27.90
.50	.71- .84	210-245	11.60-11.70	11.60-12.50	23.21-25.00
.55	.74- .89	200-235	10.46-10.47	11.52-12.45	20.72-22.64
.60	.78- .92	192-223	9.49- 9.57	11.38-12.19	18.61-20.32
.65	.81- .97	184-215	8.63- 8.64	11.22-12.18	16.80-18.75
.70	.84-1.00	178-207	7.95 -	11.13-11.99	15.36-17.14
.75	.87-1.04	171-200	7.28 -	10.92-11.83	13.99-15.78
.80	.90-1.07	166-194	6.74- 6.75	10.78-11.71	12.89-14.64
.85	.92-1.11	160-189	6.21- 6.22	10.57-11.59	11.82-13.64
.90	.95-1.14	156-183	5.79 -	10.42-11.38	10.97-12.64
.95	.97-1.17	152-180	5.40- 5.41	10.26-11.28	10.20-11.88
1.00	1.00-1.20	148-174	5.06- 5.07	10.12-11.10	9.52-11.10

## INTERMEDIATE (10 x 5 Bobbin)

.90	1.04-1.14	190-206	8.57- 8.60	11.56-11.70	12.85-13.00
.95	1.07-1.17	185-200	8.07 -	11.50-11.58	12.10-12.19
1.00	1.10-1.20	180-195	7.59 -	11.38-11.34	11.38-11.34
1.05	1.13-1.23	176-190	7.15- 7.16	11.27-11.25	10.73-10.71
1.10	1.15-1.26	172-186	6.72- 6.75	11.08-11.18	10.08-10.16
1.15	1.18-1.29	168-182	6.37- 6.38	10.99-11.10	9.56- 9.65
1.20	1.20-1.31	165-179	6.07 -	10.93-11.04	9.11- 9.20
1.25	1.23-1.34	161-174	5.74- 5.75	10.76-10.89	8.61- 8.71
1.30	1.25-1.37	158-172	5.45- 5.46	10.63-10.73	8.18- 8.26
1.35	1.28-1.39	154-168	5.20- 5.21	10.53-10.62	7.80- 7.87
1.40	1.30-1.42	150-165	4.95- 4.96	10.39-10.51	7.42- 7.51
1.50	1.35-1.47	147-159	4.52- 4.53	10.17-10.26	6.78- 6.84
1.60	1.39-1.52	142-154	4.14 -	9.94-10.08	6.21- 6.30

<sup>1</sup> Allowance made for doffing, etc.



**Range of Production of Roving Frames — (Continued)**

## INTERMEDIATE (9 x 4½ Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours <sup>1</sup>
1.40	1.42 -	170 -	6.96- 6.95	10.40-10.96	7.43- 7.83
1.50	1.47 -	164-165	6.39- 6.40	10.14-10.80	6.76- 7.20
1.60	1.52 -	159 -	5.88 -	10.00-10.59	6.25- 6.62
1.75	1.59 -	152 -	5.23- 5.24	9.71-10.31	5.55- 5.89
2.00	1.69-1.70	142 -	4.39 -	9.32- 9.88	4.66- 4.94

## INTERMEDIATE (8 x 4 Bobbin)

2.50	1.90 -	156-160	4.45 -	9.70- 9.75	3.66- 3.90
3.00	2.08 -	143-146	3.48- 3.49	9.12- 9.15	2.85- 3.05
3.50	2.24 -	133-136	8.65 -	8.68- 8.65	2.31- 2.47

## FLY FRAME (7 x 3½ Bobbin)

3.00	2.07-2.25	151-157	5.10- 5.12	8.67- 9.60	2.89- 3.20
3.25	2.16-2.34	145-151	4.60 -	8.48- 9.36	2.61- 2.88
3.50	2.24-2.43	140-145	4.17 -	8.33- 9.14	2.38- 2.61
3.75	2.32-2.52	135-140	3.80 -	8.14- 8.93	2.17- 2.38
4.00	2.40-2.60	131-136	3.47- 3.48	7.96- 8.72	1.99- 2.18
4.25	2.47-2.68	127-132	3.20 -	7.86- 8.50	1.85- 2.00
4.50	2.54-2.76	123-128	2.96 -	7.70- 8.33	1.71- 1.85
4.75	2.60-2.83	120-125	2.75 -	7.55- 8.17	1.59- 1.72
5.00	2.67-2.90	117-121	2.55- 2.56	7.45- 8.00	1.49- 1.60
5.25	2.75-2.98	114-119	2.38 -	7.30- 7.82	1.39- 1.49
5.50	2.80-3.05	111-116	2.23- 2.24	7.15- 7.70	1.30- 1.40
5.75	2.88-3.12	109-113	2.09 -	7.02- 7.53	1.22- 1.31
6.00	2.92-3.18	107-111	1.97 -	6.96- 7.38	1.16- 1.23
6.50	3.06-3.31	103-106	1.76 -	6.70- 7.15	1.03- 1.10
7.00	3.17-3.44	98-103	1.58 -	6.44- 6.93	.92- .99

## JACK FRAME (6 x 3 Bobbin)

8.00	3.39-3.40	104-109	1.98- 2.06	6.88- 7.21	.86- .90
9.00	3.60 -	98-102	1.67- 1.74	6.57- 6.85	.73- .76
10.00	3.79 -	93- 97	1.44- 1.50	6.30- 6.56	.63- .66
11.00	3.97-3.99	89- 92	1.26- 1.30	6.05- 6.26	.55- .57
12.00	4.16 -	85- 89	1.15- 1.14	5.88- 6.04	.49- .50
13.00	4.33 -	82- 85	.98- 1.02	5.59- 5.80	.43- .45
14.00	4.49-4.50	79- 82	.88- .92	5.39- 5.46	.39- .40

<sup>1</sup> Allowance made for doffing, etc.

**Range of Production of Roving Frames — (Concluded)**

JACK (6 x 2½ Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours <sup>1</sup>
11.00	3.97-4.31	89-100	1.71- 1.93	5.72- 6.63	.52- .60
12.00	4.15-4.50	85- 95	1.51- 1.70	5.52- 6.36	.46- .53
13.00	4.33-4.69	82- 91	1.34- 1.52	5.33- 6.18	.41- .48
14.00	4.49-4.86	79- 88	1.20- 1.37	5.18- 5.99	.37- .43
16.00	4.80-5.20	74- 83	.99- 1.12	4.96- 5.60	.31- .35
18.00	5.08-5.52	69- 78	.83- .95	4.68- 5.35	.26- .30
20.00	5.36-5.81	66- 74	.71- .81	4.40- 5.06	.22- .28
22.00	5.62-6.10	63- 70	.62- .71	4.18- 4.89	.19- .22
24.00	5.87-6.37	60- 67	.55- .62	4.08- 4.66	.17- .19

JACK (7 x 3 Bobbin)

5.50	2.80-2.82	125-127	3.10- 2.93	7.70- 7.93	1.45- 1.40
5.75	2.88 -	118-123	2.54- 2.40	7.65- 7.76	1.35- 1.33
6.00	2.92-2.94	115-120	2.26- 2.41	7.56- 7.68	1.28- 1.26
6.50	3.06 -	111-116	2.02- 2.14	7.35- 7.41	1.14- 1.13
7.00	3.17 -	107-112	1.82- 1.93	7.14- 7.21	1.03- 1.02
7.50	3.29 -	103-108	1.64- 1.74	6.98- 6.90	.92- .93
8.00	3.39-3.40	100-104	1.50- 1.58	6.76- 6.72	.84- .85
9.00	3.60 -	94- 98	1.27- 1.34	6.48- 6.39	.71- .72

<sup>1</sup> Allowance made for doffing, etc.

## Range of Production of Ring Filling Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours <sup>1</sup>
4	4,000-4,700	6.50-7.50	182.0-200	2.414-2.480
5	4,400-4,875	7.27-7.83	178.8-198	1.897-1.968
6	4,800-5,225	7.96-8.57	178.3-194	1.594-1.600
7	5,150-5,525	8.60-9.26	176.9-190	1.356-1.344
8	5,450-5,825	9.19-9.90	175.3-188	1.176-1.189
9	5,700-6,025	9.75-10.50	172.7-186	1.030-1.033
10	5,950-6,225	10.28-11.07	171.0-184	.928-.910
11	6,150-6,375	10.78-11.61	168.6-182	.832-.820
12	6,350-6,500	11.26-12.12	166.7-179	.763-.733
13	6,500-6,675	11.72-12.62	164.0-177	.693-.665
14	6,700-6,825	12.16-13.10	162.7-175	.638-.617
15	6,850-6,975	12.59-13.56	160.7-173	.588-.569
16	6,950-7,125	13.00-14.00	158.0-170	.542-.533
17	7,100-7,250	13.40-14.43	156.6-168	.506-.496
18	7,200-7,425	13.79-14.85	154.3-166	.471-.471
19	7,300-7,525	14.17-15.26	152.5-164	.441-.440
20	7,400-7,675	14.53-15.65	150.4-162	.418-.420
21	7,500-7,800	14.89-16.04	148.8-160	.394-.397
22	7,600-7,950	15.24-16.42	147.3-158	.372-.378
23	7,700-8,075	15.59-16.79	145.9-156	.352-.362
24	7,800-8,200	15.92-17.15	144.7-154	.335-.345
25	7,850-8,300	16.25-17.50	142.8-152	.317-.333
26	7,850-8,400	16.57-17.85	140.0-150	.302-.318
27	7,850-8,325	16.89-17.66	141.6-150	.295-.310
28	7,900-8,300	17.20-17.99	139.7-147	.280-.293
29	7,900-8,300	17.50-18.29	137.4-145	.266-.279
30	7,900-8,300	17.80-18.35	136.9-144	.259-.267
31	7,900-8,300	18.10-18.62	135.0-142	.248-.256
32	7,900-8,250	18.38-18.64	134.9-141	.239-.248
33	7,900-8,200	18.67-18.94	133.3-138	.229-.236
34	7,900-8,150	18.95-18.95	132.7-137	.222-.227
35	7,900-8,150	19.23-19.23	130.7-135	.214-.217
36	7,900-8,150	19.50-19.50	128.9-133	.206-.211
37	7,900-8,125	19.77-19.77	127.2-131	.195-.202
38	7,900-8,100	20.03-20.03	125.5-129	.190-.193
39	7,900-8,100	20.30-20.30	123.8-127	.182-.185
40	7,900-8,075	20.55-20.55	122.0-125	.177-.179
41	7,900-8,050	20.81-20.81	120.8-123	.171-.173
42	7,900-8,000	21.06-21.06	119.0-121	.165-.166
43	7,900-7,975	21.31-21.31	117.9-119	.159-.159
44	7,900-7,975	21.56-21.56	116.6-118	.154-.154
45	7,900-7,950	21.80-21.80	115.0-116	.149-.149
46	7,900-7,950	22.04-22.04	114.0-115	.144-.145
47	7,900-7,900	22.28-22.28	112.8-113	.139-.140
48	7,900-7,850	22.52-22.52	112.0-111	.135-.134
49	7,900-7,850	22.75-22.75	111.0-110	.131-.131
50	7,900-7,800	22.98-22.98	109.4-108	.128-.126
55	7,900-7,800	24.10-24.10	104.3-103	.112-.110
60	7,900-7,825	25.16-25.17	100.0-99	.100-.098
65	7,800-7,850	25.79-26.20	95.0-97	.088-.088
70	7,800-7,825	26.75-27.19	91.0-93	.079-.080
75	7,800-7,825	27.71-28.15	88.0-90	.072-.072
80	7,700-7,825	28.16-29.07	84.0-87	.066-.066
85	7,600-7,800	29.04-29.96	81.0-84	.059-.060
90	7,400-7,725	29.39-30.83	77.0-81	.054-.054
95	7,400-7,675	30.19-31.68	74.0-78	.050-.049
100	7,200-7,650	30.50-32.50	71.0-76	.046-.046

<sup>1</sup> Allowance made for doffing, etc.

## Range of Production of Ring Warp Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours <sup>1</sup>
4	4,950-5,075	9.50 -	166.0-170.0	2.278-2.323
5	5,450-5,550	10.62 -	163.2-167.0	1.791-1.822
6	5,900-6,000	11.63 -	161.4-165.0	1.477-1.513
7	6,300-6,450	12.56 -	159.6-163.0	1.252-1.282
8	6,650-6,725	13.43 -	157.6-160.0	1.082-1.103
9	7,000-7,100	14.25 -	156.3-158.0	.954-.968
10	7,250-7,250	15.02 -	153.6-154.0	.853-.859
11	7,500-7,550	15.75 -	151.5-152.0	.765-.771
12	7,750-7,775	16.45 -	150.0-150.0	.694-.697
13	7,950-8,000	17.12 -	147.8-149.0	.631-.640
14	8,150-8,175	17.77 -	145.9-146.0	.579-.582
15	8,300-8,325	18.39 -	143.6-144.0	.632-.535
16	8,450-8,475	19.00 -	141.5-142.0	.497-.495
17	8,600-8,625	19.58 -	139.7-140.0	.468-.460
18	8,750-8,750	20.15 -	138.1-138.0	.429-.427
19	8,850-8,850	20.70 -	136.0-136.0	.398-.400
20	8,950-8,925	21.24 -	134.0-134.0	.376-.378
21	9,050-9,050	21.76 -	132.3-132.0	.334-.365
22	9,100-9,100	22.27 -	130.0-130.0	.332-.333
23	9,150-9,175	22.78 -	127.8-128.0	.312-.314
24	9,200-9,225	23.27 -	125.8-126.0	.294-.297
25	9,300-9,300	23.75 -	124.6-125.0	.280-.285
26	9,400-9,425	24.22 -	123.7-124.0	.270-.272
27	9,450-9,475	24.68 -	121.9-122.0	.256-.258
28	9,500-9,475	25.13 -	120.2-120.0	.244-.245
29	9,500-9,500	25.58 -	118.2-118.0	.231-.232
30	9,500-9,550	26.02 -	116.2-117.0	.220-.225
31	9,500-9,550	26.44 -	114.4-115.0	.210-.214
32	9,500-9,550	26.87 -	112.5-113.0	.200-.204
33	9,550-9,600	27.28 -	111.4-112.0	.192-.195
34	9,600-9,650	27.69 -	110.3-111.0	.184-.188
35	9,600-9,675	28.10 -	108.7-110.0	.178-.181
36	9,700-9,675	28.50 -	108.3-108.0	.173-.173
37	9,700-9,700	28.89 -	106.8-107.0	.166-.186
38	9,800-9,700	29.28 -	106.5-106.0	.161 -
39	9,800-9,700	29.66 -	105.2-105.0	.155 -
40	9,700-9,700	29.07 -	106.2-104.0	.152 -
41	9,700-9,700	29.44 -	104.9-104.0	.147 -
42	9,675-9,700	29.80-29.9	103.0-103.6	.142-.144
43	9,675-9,700	30.13-30.2	102.0-102.5	.137-.140
44	9,675-9,700	30.49-30.5	101.0-101.2	.132-.135
45	9,675-9,700	30.82-30.8	100.0-100.2	.129-.131
46	9,681-9,700	31.18-28.8	107.0-99.0	.125-.137
47	9,690-9,700	31.51-29.1	106.0-98.0	.121-.133
48	9,698-9,700	31.83-29.4	105.0-97.0	.117-.129
49	9,736-9,700	32.20-29.8	104.0-95.9	.114-.125
50	9,740-9,700	32.52-30.1	103.0-94.9	.110-.122
55	9,896-9,600	33.34-31.5	100.0-91.6	.098-.107
60	9,544-9,600	34.83-31.0	98.0-87.7	.087-.098
65	9,640-9,600	36.27-32.3	95.0-84.2	.077-.088
70	9,577-9,600	37.62-33.5	91.0-81.2	.069-.079
75	9,456-9,500	38.10-34.6	87.0-79.4	.063-.070
80	9,447-9,500	39.33-35.8	84.0-76.9	.058-.064
85	9,274-9,100	39.64-36.9	80.0-74.0	.052-.057
90	9,073-9,100	40.76-38.0	76.0-71.0	.048-.051
95	8,944-9,000	41.83-39.0	73.0-68.5	.044-.047
100	8,796-8,700	42.00-40.0	70.0-65.9	.040-.042

<sup>1</sup> Allowance made for doffing, etc.

## Range of Production of Ring Hosiery Yarns

[Twist Multiplier — 3.00]

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours <sup>1</sup>
4 . . . . .	3,393-3,400	6.00	180-180.3	2.359-2.400
5 . . . . .	3,700-3,711	6.71	176-175.4	1.836-1.872
6 . . . . .	3,995-4,000	7.35	173-173.2	1.511-1.537
7 . . . . .	4,191-4,200	7.94	168-168.3	1.258-1.280
8 . . . . .	4,396-4,400	8.49	165-164.9	1.092-1.112
9 . . . . .	4,609-4,600	9.00	163-162.6	.957- .976
10 . . . . .	4,800-4,800	9.49	161-161.0	.853- .878
11 . . . . .	5,001-5,000	9.95	160-159.9	.770- .793
12 . . . . .	5,157-5,150	10.39	158-157.7	.704- .718
13 . . . . .	5,337-5,350	10.82	157-157.4	.649- .666
14 . . . . .	5,499-5,500	11.22	156-156.3	.598- .614
15 . . . . .	5,658-5,650	11.62	155-154.7	.553- .570
16 . . . . .	5,806-5,800	12.00	154-153.8	.515- .530
17 . . . . .	5,907-5,900	12.37	152-151.7	.484- .493
18 . . . . .	5,999-6,000	12.73	150-150.0	.446- .459
19 . . . . .	6,077-6,100	13.08	148-148.4	.423- .435
20 . . . . .	6,109-6,100	13.42	145-144.6	.396- .404
21 . . . . .	6,177-6,100	13.75	143-141.2	.369- .380
22 . . . . .	6,188-6,200	14.07	140-140.2	.349- .355
23 . . . . .	6,193-6,200	14.39	137-137.1	.327- .332
24 . . . . .	6,235-6,200	14.70	135-134.2	.310- .313
25 . . . . .	6,267-6,300	15.00	133-133.7	.297- .296
26 . . . . .	6,297-6,300	15.30	131-131.0	.283- .284
27 . . . . .	6,318-6,300	15.59	129-128.6	.267- .269
28 . . . . .	6,332-6,300	15.87	127-126.3	.253- .259
29 . . . . .	6,342-6,300	16.16	125-124.0	.240- .246
30 . . . . .	6,400-6,400	16.43	124-123.9	.232- .236

<sup>1</sup> Allowance made for doffing, etc.

### Roving Table

For numbering by weight, in grains, of 12 yards; and showing twist per inch

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			.70	.80	.90	1.00	1.10	1.20	1.25	1.30
500.00	.20	.447	.31	.36	.40	.45	.49	.54	.56	.58
400.00	.25	.500	.35	.40	.45	.50	.55	.60	.63	.65
333.33	.30	.548	.38	.44	.49	.55	.60	.66	.69	.71
285.71	.35	.592	.41	.47	.53	.59	.65	.71	.74	.77
250.00	.40	.632	.44	.50	.57	.63	.69	.76	.79	.82
222.22	.45	.671	.47	.54	.60	.67	.74	.81	.84	.87
200.00	.50	.707	.49	.57	.64	.71	.78	.85	.88	.92
181.82	.55	.742	.52	.59	.67	.74	.82	.89	.93	.96
166.67	.60	.775	.54	.62	.70	.78	.85	.93	.97	1.01
153.85	.65	.806	.56	.64	.73	.81	.89	.97	1.01	1.05
142.86	.70	.837	.59	.67	.75	.84	.92	1.00	1.05	1.09
133.33	.75	.866	.61	.69	.78	.87	.95	1.04	1.08	1.13
125.00	.80	.894	.63	.72	.80	.89	.98	1.07	1.12	1.16
117.65	.85	.922	.65	.74	.83	.92	1.01	1.11	1.15	1.20
111.11	.90	.949	.66	.76	.85	.95	1.04	1.14	1.19	1.23
105.26	.95	.975	.68	.78	.88	.98	1.07	1.17	1.22	1.27
100.00	1.00	1.000	.70	.80	.90	1.00	1.10	1.20	1.25	1.30
95.25	1.05	1.025	.72	.82	.92	1.03	1.13	1.23	1.28	1.33
90.91	1.10	1.049	.73	.84	.94	1.05	1.15	1.26	1.31	1.36
86.96	1.15	1.073	.75	.86	.97	1.07	1.18	1.29	1.34	1.39
83.33	1.20	1.095	.77	.88	.99	1.10	1.20	1.31	1.37	1.42
80.00	1.25	1.118	.78	.89	1.01	1.12	1.23	1.34	1.40	1.45
76.92	1.30	1.140	.80	.91	1.03	1.14	1.25	1.37	1.43	1.48
74.07	1.35	1.162	.81	.93	1.05	1.16	1.28	1.39	1.45	1.51
71.43	1.40	1.183	.83	.95	1.06	1.18	1.30	1.42	1.48	1.54
69.00	1.45	1.204	.84	.96	1.08	1.20	1.32	1.44	1.51	1.57
66.67	1.50	1.225	.86	.98	1.10	1.23	1.35	1.47	1.53	1.59
64.52	1.55	1.245	.87	1.00	1.12	1.25	1.37	1.49	1.56	1.62
62.50	1.60	1.265	.89	1.01	1.14	1.27	1.39	1.52	1.58	1.64
60.61	1.65	1.285	.90	1.03	1.16	1.29	1.41	1.54	1.61	1.67
58.82	1.70	1.304	.91	1.04	1.17	1.30	1.43	1.56	1.63	1.70
57.14	1.75	1.323	.93	1.06	1.19	1.32	1.46	1.59	1.65	1.72
55.56	1.80	1.342	.94	1.07	1.21	1.34	1.48	1.61	1.68	1.74
54.05	1.85	1.360	.95	1.09	1.22	1.36	1.50	1.63	1.70	1.77
52.63	1.90	1.378	.96	1.10	1.24	1.38	1.52	1.65	1.72	1.79
51.27	1.95	1.397	.98	1.12	1.26	1.40	1.54	1.68	1.75	1.82
50.00	2.00	1.414	.99	1.13	1.27	1.41	1.56	1.70	1.77	1.84
48.78	2.05	1.432	1.00	1.15	1.29	1.43	1.58	1.72	1.79	1.86
47.62	2.10	1.449	1.01	1.16	1.30	1.45	1.59	1.74	1.81	1.88
46.51	2.15	1.467	1.03	1.17	1.32	1.47	1.61	1.76	1.83	1.91
45.45	2.20	1.483	1.04	1.19	1.33	1.48	1.63	1.78	1.85	1.93
44.44	2.25	1.500	1.05	1.20	1.35	1.50	1.65	1.80	1.88	1.95
43.48	2.30	1.515	1.06	1.21	1.36	1.52	1.67	1.82	1.89	1.97
42.55	2.35	1.535	1.07	1.23	1.38	1.54	1.69	1.84	1.92	2.00
41.67	2.40	1.549	1.08	1.24	1.39	1.55	1.70	1.86	1.94	2.01
40.82	2.45	1.565	1.10	1.25	1.41	1.57	1.72	1.88	1.96	2.03
40.00	2.50	1.583	1.11	1.27	1.42	1.58	1.74	1.90	1.98	2.06
39.22	2.55	1.597	1.12	1.28	1.44	1.60	1.76	1.92	2.00	2.08
38.46	2.60	1.611	1.13	1.29	1.45	1.61	1.77	1.93	2.01	2.09
37.73	2.65	1.630	1.14	1.30	1.47	1.63	1.79	1.96	2.04	2.12
37.04	2.70	1.643	1.15	1.31	1.48	1.64	1.81	1.97	2.05	2.14
36.36	2.75	1.658	1.16	1.33	1.49	1.66	1.82	1.99	2.07	2.16

Roving Table—(Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			.80	.90	1.00	1.10	1.20	1.25	1.30	1.35
35.71	2.80	1.673	1.34	1.51	1.67	1.84	2.01	2.09	2.17	2.26
35.09	2.85	1.688	1.35	1.52	1.69	1.86	2.03	2.11	2.19	2.28
34.48	2.90	1.703	1.36	1.53	1.70	1.87	2.04	2.13	2.21	2.30
33.91	2.95	1.718	1.37	1.55	1.72	1.89	2.06	2.15	2.23	2.32
33.33	3.00	1.732	1.39	1.56	1.73	1.91	2.08	2.17	2.25	2.34
32.79	3.05	1.746	1.40	1.57	1.75	1.92	2.10	2.18	2.27	2.36
32.26	3.10	1.760	1.41	1.58	1.76	1.94	2.11	2.20	2.29	2.38
31.76	3.15	1.775	1.42	1.60	1.78	1.95	2.13	2.22	2.31	2.40
31.25	3.20	1.789	1.43	1.61	1.79	1.97	2.15	2.24	2.33	2.42
30.78	3.25	1.803	1.44	1.62	1.80	1.98	2.16	2.25	2.34	2.43
30.30	3.30	1.817	1.45	1.64	1.82	2.00	2.18	2.27	2.36	2.45
29.86	3.35	1.831	1.46	1.65	1.83	2.01	2.20	2.29	2.38	2.47
29.41	3.40	1.844	1.48	1.66	1.84	2.02	2.21	2.31	2.40	2.49
28.99	3.45	1.857	1.49	1.67	1.86	2.04	2.23	2.32	2.41	2.51
28.57	3.50	1.870	1.50	1.68	1.87	2.06	2.24	2.34	2.43	2.52
28.17	3.55	1.884	1.51	1.70	1.88	2.07	2.26	2.36	2.45	2.54
27.78	3.60	1.897	1.52	1.71	1.90	2.09	2.28	2.37	2.47	2.56
27.40	3.65	1.910	1.53	1.72	1.91	2.10	2.29	2.39	2.48	2.58
27.03	3.70	1.924	1.54	1.73	1.92	2.12	2.31	2.41	2.50	2.60
26.67	3.75	1.936	1.55	1.74	1.94	2.13	2.32	2.42	2.52	2.61
26.32	3.80	1.950	1.56	1.76	1.95	2.15	2.34	2.44	2.54	2.63
25.98	3.85	1.963	1.57	1.77	1.96	2.16	2.36	2.45	2.55	2.65
25.64	3.90	1.975	1.58	1.78	1.98	2.17	2.37	2.47	2.57	2.67
25.32	3.95	1.987	1.59	1.79	1.99	2.19	2.38	2.48	2.58	2.68
25.00	4.00	2.000	1.60	1.80	2.00	2.20	2.40	2.50	2.60	2.70
24.69	4.05	2.012	1.61	1.81	2.01	2.21	2.41	2.52	2.62	2.72
24.39	4.10	2.025	1.62	1.82	2.03	2.23	2.43	2.53	2.63	2.73
24.10	4.15	2.038	1.63	1.83	2.04	2.24	2.45	2.55	2.65	2.75
23.81	4.20	2.049	1.64	1.84	2.05	2.25	2.46	2.56	2.66	2.77
23.53	4.25	2.063	1.65	1.86	2.06	2.27	2.48	2.58	2.68	2.79
23.26	4.30	2.074	1.66	1.87	2.07	2.28	2.49	2.59	2.70	2.80
23.00	4.35	2.085	1.67	1.88	2.09	2.29	2.50	2.61	2.71	2.81
22.73	4.40	2.098	1.68	1.89	2.10	2.31	2.52	2.62	2.73	2.83
22.48	4.45	2.110	1.69	1.90	2.11	2.32	2.53	2.64	2.74	2.85
22.22	4.50	2.121	1.70	1.91	2.12	2.33	2.55	2.65	2.76	2.86
21.98	4.55	2.133	1.71	1.92	2.13	2.35	2.56	2.67	2.77	2.88
21.74	4.60	2.145	1.72	1.93	2.15	2.36	2.57	2.68	2.79	2.90
21.51	4.65	2.156	1.72	1.94	2.16	2.37	2.59	2.70	2.80	2.91
21.28	4.70	2.167	1.73	1.95	2.17	2.38	2.60	2.71	2.82	2.93
21.05	4.75	2.179	1.74	1.96	2.18	2.40	2.61	2.72	2.83	2.94
20.83	4.80	2.191	1.75	1.97	2.19	2.41	2.63	2.74	2.85	2.96
20.62	4.85	2.202	1.76	1.98	2.20	2.42	2.64	2.75	2.86	2.97
20.41	4.90	2.213	1.77	1.99	2.21	2.43	2.66	2.77	2.88	2.99
20.20	4.95	2.225	1.78	2.00	2.23	2.45	2.67	2.78	2.89	3.00
20.00	5.00	2.236	1.79	2.01	2.24	2.46	2.68	2.80	2.91	3.02
19.80	5.05	2.247	1.80	2.02	2.25	2.47	2.70	2.81	2.92	3.03
19.61	5.10	2.259	1.81	2.03	2.26	2.48	2.71	2.82	2.94	3.05
19.42	5.15	2.269	1.82	2.04	2.27	2.50	2.72	2.84	2.95	3.06
19.23	5.20	2.280	1.82	2.05	2.28	2.51	2.74	2.85	2.96	3.08
19.05	5.25	2.291	1.83	2.06	2.29	2.52	2.75	2.86	2.98	3.09
18.87	5.30	2.302	1.84	2.07	2.30	2.53	2.76	2.88	2.99	3.11
18.69	5.35	2.313	1.85	2.08	2.31	2.54	2.78	2.89	3.01	3.12

## Roving Table—(Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.00	1.10	1.20	1.25	1.30	1.35	1.40	1.45
18.52	5.40	2.324	2.32	2.56	2.79	2.91	3.02	3.14	3.25	3.37
18.35	5.45	2.334	2.33	2.57	2.80	2.92	3.03	3.15	3.27	3.38
18.18	5.50	2.345	2.35	2.58	2.81	2.93	3.05	3.17	3.28	3.40
18.02	5.55	2.356	2.36	2.59	2.83	2.95	3.06	3.18	3.30	3.42
17.86	5.60	2.366	2.37	2.60	2.84	2.96	3.08	3.19	3.31	3.43
17.70	5.65	2.377	2.38	2.61	2.85	2.97	3.09	3.21	3.33	3.45
17.54	5.70	2.388	2.39	2.63	2.87	2.99	3.10	3.22	3.34	3.46
17.36	5.75	2.398	2.40	2.64	2.88	3.00	3.12	3.24	3.36	3.48
17.24	5.80	2.408	2.41	2.65	2.89	3.01	3.13	3.25	3.37	3.49
17.09	5.85	2.418	2.42	2.66	2.90	3.02	3.14	3.26	3.39	3.51
16.95	5.90	2.429	2.43	2.67	2.91	3.04	3.16	3.28	3.40	3.52
16.81	5.95	2.439	2.44	2.68	2.93	3.05	3.17	3.29	3.41	3.54
16.67	6.00	2.449	2.45	2.69	2.94	3.06	3.18	3.31	3.43	3.55
16.39	6.10	2.470	2.47	2.72	2.96	3.09	3.21	3.33	3.46	3.58
16.27	6.15	2.480	2.48	2.73	2.98	3.10	3.22	3.35	3.47	3.60
16.03	6.25	2.500	2.50	2.75	3.00	3.13	3.25	3.38	3.50	3.63
15.87	6.30	2.510	2.51	2.76	3.01	3.14	3.26	3.39	3.52	3.64
15.62	6.40	2.530	2.53	2.78	3.04	3.16	3.29	3.42	3.54	3.67
15.38	6.50	2.550	2.55	2.81	3.06	3.19	3.32	3.44	3.57	3.70
15.15	6.60	2.569	2.57	2.83	3.08	3.21	3.34	3.47	3.60	3.73
14.93	6.70	2.588	2.59	2.85	3.11	3.24	3.36	3.49	3.62	3.75
14.82	6.75	2.597	2.60	2.86	3.12	3.25	3.38	3.51	3.64	3.77
14.71	6.80	2.608	2.61	2.87	3.13	3.26	3.39	3.52	3.65	3.78
14.49	6.90	2.627	2.63	2.89	3.15	3.28	3.42	3.55	3.68	3.81
14.29	7.00	2.646	2.65	2.91	3.18	3.31	3.44	3.58	3.70	3.84
14.08	7.10	2.665	2.67	2.93	3.20	3.33	3.46	3.60	3.73	3.86
14.00	7.15	2.674	2.67	2.94	3.21	3.34	3.48	3.61	3.74	3.88
13.81	7.25	2.693	2.69	2.96	3.23	3.37	3.50	3.64	3.77	3.90
13.70	7.30	2.702	2.70	2.97	3.24	3.38	3.51	3.65	3.78	3.92
13.51	7.40	2.720	2.72	2.99	3.26	3.40	3.53	3.67	3.81	3.94
13.33	7.50	2.739	2.74	3.01	3.29	3.42	3.56	3.70	3.83	3.97
13.16	7.60	2.759	2.76	3.03	3.31	3.44	3.58	3.72	3.86	4.00
12.99	7.70	2.775	2.78	3.05	3.33	3.47	3.61	3.75	3.89	4.02
12.91	7.75	2.784	2.78	3.06	3.34	3.48	3.62	3.76	3.90	4.04
12.82	7.80	2.793	2.79	3.07	3.35	3.49	3.63	3.77	3.91	4.05
12.66	7.90	2.811	2.81	3.09	3.37	3.51	3.65	3.79	3.94	4.08
12.50	8.00	2.828	2.83	3.11	3.39	3.54	3.68	3.82	3.96	4.10
12.13	8.25	2.872	2.87	3.16	3.45	3.59	3.73	3.88	4.02	4.16
11.76	8.50	2.915	2.92	3.21	3.50	3.64	3.79	3.94	4.08	4.23
11.44	8.75	2.958	2.96	3.25	3.55	3.70	3.85	4.00	4.14	4.29
11.11	9.00	3.000	3.00	3.30	3.60	3.75	3.90	4.05	4.20	4.35
10.82	9.25	3.041	3.04	3.35	3.65	3.80	3.95	4.11	4.26	4.41
10.53	9.50	3.082	3.08	3.39	3.70	3.85	4.00	4.16	4.31	4.47
10.27	9.75	3.122	3.12	3.43	3.75	3.90	4.06	4.21	4.37	4.53
10.00	10.00	3.162	3.16	3.48	3.79	3.95	4.11	4.27	4.43	4.58
9.78	10.25	3.202	3.20	3.52	3.84	4.00	4.16	4.32	4.48	4.64
9.55	10.50	3.240	3.24	3.56	3.89	4.05	4.21	4.37	4.54	4.71
9.32	10.75	3.278	3.28	3.61	3.93	4.10	4.26	4.43	4.59	4.75
9.09	11.00	3.316	3.32	3.65	3.98	4.15	4.31	4.48	4.64	4.81
8.90	11.25	3.355	3.36	3.69	4.03	4.19	4.36	4.53	4.70	4.86
8.71	11.50	3.391	3.39	3.73	4.07	4.24	4.41	4.58	4.75	4.92
8.52	11.75	3.438	3.43	3.77	4.11	4.28	4.46	4.63	4.80	4.97



Roving Table—(Concluded)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.10	1.20	1.25	1.30	1.35	1.40	1.45	1.50
8.33	12.00	3.464	3.81	4.16	4.33	4.50	4.68	4.85	5.02	5.20
8.16	12.25	3.500	3.85	4.20	4.38	4.55	4.73	4.90	5.08	5.25
8.00	12.50	3.535	3.89	4.24	4.42	4.60	4.77	4.95	5.13	5.30
7.84	12.75	3.570	3.93	4.28	4.46	4.64	4.82	5.00	5.18	5.36
7.69	13.00	3.605	3.97	4.33	4.51	4.69	4.87	5.05	5.23	5.41
7.55	13.25	3.640	4.00	4.37	4.55	4.73	4.91	5.10	5.28	5.46
7.41	13.50	3.674	4.04	4.41	4.59	4.78	4.96	5.14	5.33	5.51
7.27	13.75	3.709	4.08	4.45	4.64	4.82	5.01	5.19	5.38	5.56
7.14	14.00	3.745	4.12	4.49	4.68	4.88	5.06	5.24	5.43	5.62
7.02	14.25	3.774	4.15	4.53	4.72	4.91	5.09	5.28	5.47	5.66
6.90	14.50	3.810	4.19	4.57	4.76	4.95	5.14	5.33	5.52	5.72
6.78	14.75	3.841	4.23	4.61	4.80	4.99	5.19	5.38	5.57	5.76
6.67	15.00	3.873	4.26	4.65	4.84	5.03	5.23	5.42	5.62	5.81
6.56	15.25	3.905	4.30	4.69	4.88	5.08	5.27	5.47	5.66	5.86
6.45	15.50	3.937	4.33	4.73	4.92	5.12	5.31	5.51	5.71	5.91
6.35	15.75	3.969	4.37	4.76	4.96	5.16	5.36	5.56	5.76	5.95
6.25	16.00	4.000	4.40	4.80	5.00	5.20	5.40	5.60	5.80	6.00
6.16	16.25	4.032	4.44	4.84	5.04	5.24	5.44	5.64	5.85	6.05
6.06	16.50	4.062	4.47	4.87	5.08	5.28	5.48	5.69	5.89	6.09
5.97	16.75	4.092	4.50	4.91	5.12	5.32	5.52	5.73	5.93	6.14
5.88	17.00	4.123	4.54	4.95	5.15	5.36	5.57	5.77	5.98	6.18
5.80	17.25	4.152	4.57	4.98	5.19	5.40	5.61	5.81	6.02	6.23
5.72	17.50	4.183	4.60	5.02	5.23	5.44	5.65	5.86	6.07	6.27
5.64	17.75	4.212	4.63	5.05	5.27	5.48	5.69	5.90	6.11	6.32
5.56	18.00	4.242	4.67	5.09	5.30	5.51	5.73	5.94	6.15	6.36
5.49	18.25	4.272	4.70	5.13	5.34	5.55	5.78	5.98	6.19	6.41
5.41	18.50	4.301	4.73	5.16	5.38	5.59	5.81	6.02	6.24	6.45
5.34	18.75	4.330	4.76	5.20	5.41	5.63	5.85	6.06	6.28	6.49
5.26	19.00	4.358	4.79	5.23	5.45	5.67	5.88	6.10	6.32	6.54
5.20	19.25	4.387	4.82	5.26	5.48	5.70	5.92	6.14	6.36	6.58
5.13	19.50	4.416	4.86	5.30	5.52	5.74	5.96	6.18	6.40	6.62
5.07	19.75	4.444	4.89	5.33	5.56	5.78	6.00	6.22	6.44	6.67
5.00	20.00	4.472	4.92	5.37	5.59	5.81	6.04	6.26	6.48	6.71
4.94	20.25	4.500	4.95	5.40	5.63	5.85	6.08	6.30	6.53	6.75
4.88	20.50	4.527	4.98	5.43	5.66	5.89	6.11	6.34	6.56	6.79
4.82	20.75	4.555	5.01	5.47	5.69	5.92	6.15	6.38	6.60	6.83
4.76	21.00	4.582	5.04	5.50	5.73	5.96	6.19	6.41	6.64	6.87
4.71	21.25	4.609	5.07	5.53	5.76	5.99	6.22	6.45	6.68	6.91
4.66	21.50	4.637	5.10	5.56	5.80	6.03	6.26	6.49	6.72	6.96
4.60	21.75	4.664	5.13	5.60	5.83	6.06	6.30	6.53	6.76	7.00
4.55	22.00	4.690	5.16	5.63	5.86	6.10	6.33	6.57	6.80	7.04
4.50	22.25	4.717	5.19	5.66	5.90	6.13	6.37	6.60	6.84	7.08
4.45	22.50	4.743	5.22	5.69	5.93	6.17	6.40	6.64	6.88	7.11
4.40	22.75	4.769	5.25	5.72	5.96	6.20	6.44	6.68	6.92	7.15
4.35	23.00	4.796	5.28	5.76	6.00	6.23	6.47	6.71	6.95	7.19
4.31	23.25	4.821	5.30	5.79	6.03	6.27	6.51	6.75	6.99	7.23
4.26	23.50	4.848	5.33	5.82	6.06	6.30	6.54	6.79	7.03	7.27
4.22	23.75	4.873	5.36	5.85	6.09	6.33	6.58	6.82	7.07	7.31
4.17	24.00	4.899	5.39	5.88	6.12	6.37	6.61	6.86	7.10	7.35
4.13	24.25	4.924	5.42	5.91	6.16	6.40	6.64	6.89	7.14	7.39
4.09	24.50	4.949	5.44	5.94	6.19	6.43	6.68	6.93	7.18	7.42
4.00	25.00	5.000	5.50	6.00	6.25	6.50	6.75	7.00	7.25	7.50

### Conversion Table of Cotton Yarn Numbers

Metric Number	English Number	French Number	Austrian Number	Netherlands Number
1.	0.59	0.5	0.483	0.651
1.694	1.	0.8475	0.818	1.103
2.	1.18	1.	0.966	1.302
2.07	1.222	1.035	1.	1.3478
1.535	0.90629	.768	.74193	1.

### Spinning Frame Production

To find 100 per cent Production per Spindle, in Pounds, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840 \times \text{No. of Yarn}} = \text{Lbs. per spindle.}$$

EXAMPLE:

$$\frac{3.1416 \times 90 \times 60 \times 54}{36 \times 840 \times 52} = .582 \text{ Lbs. per spindle.}$$

### Roving Frame Production

To find 100 per cent Production of Roving Frames, in Hanks, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840} = \text{Hanks per spindle.}$$

EXAMPLE: Assume speed of front roll 80 r. p. m.

Assume Circum. of front roll 3.927 inches.

$$\frac{3.927 \times 80 \times 60 \times 54}{36 \times 840} = 33.66 \text{ Hanks per spindle.}$$

## Yarn Organizations

Courtesy W. A. Graham Clark

Yarn Number	Lap Ounce Per Yard	CARD		DRAW-FRAME		SLUBBER			INTER-MEDIATE			FINE FRAME			JACK FRAME			SPINNING	
		Draft	Sliver Grains	Sliver Grains	Sliver Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft
6	16	93	75	75	.111	1	3.6	.40	2	5.	1.00	-	-	-	-	-	-	1	6.
8	16	-	75	75	.111	1	4.5	.50	2	5.	1.25	-	-	-	-	-	-	1	6.4
10	14	94	65	65	.128	1	3.9	.50	2	5.3	1.33	-	-	-	-	-	-	1	7.5
12	14	-	65	65	.128	1	4.7	.60	2	5.3	1.60	-	-	-	-	-	-	1	7.5
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	2	9.6
14	14	-	65	65	.128	1	4.7	.60	2	5.3	1.60	-	-	-	-	-	-	1	8.8
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	2	11.2
16	14	-	65	65	.128	1	4.7	.60	2	6.	1.80	-	-	-	-	-	-	1	8.8
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	-	-	2	10.6
18	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	7.2
-	14	-	65	65	.128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	-	-	2	12.0
20	13	95	60	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	8.0
-	13	-	60	65	.128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	-	-	2	10.0
22	13	-	60	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	8.8
-	13	-	60	65	.128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	-	-	2	11.0
24	13	-	60	65	.128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	-	-	1	8.0
-	13	-	60	65	.128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	-	-	2	12.0
26	13	-	60	65	.128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	-	-	1	8.7
-	13	-	60	65	.128	1	4.7	.60	2	5.	1.50	2	6.	4.50	-	-	-	2	11.6
28	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	5.3	3.50	-	-	-	1	8.0
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	10.2
30	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	5.3	3.50	-	-	-	1	8.6
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	10.9
32	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	8.0
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	11.6
34	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	8.5
-	12	-	50	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	-	-	2	12.4
36	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	9.0
-	12	-	50	60	.139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	5.2	6.5	2	11.1
38	12	-	50	60	.139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	-	-	1	9.5
-	12	-	50	60	.139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	5.2	6.5	2	11.7
40	12	-	50	60	.139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	6.4	8.0	2	10.0
50	12	117	45	60	.139	1	3.6	.50	2	4.	1.00	2	6.	3.00	2	6.7	10.	2	10.0
60	12	-	45	60	.139	1	4.3	.60	2	5.	1.50	2	5.3	4.00	2	6.0	12.	2	10.0
70	12	-	45	60	.139	1	4.3	.60	2	5.	1.50	2	6.	4.50	2	6.2	14.	2	10.0
80	12	-	45	60	.139	1	4.7	.65	2	5.5	1.80	2	5.6	5.00	2	6.4	16.	2	10.0
90	12	-	45	60	.139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	2	6.5	18.	2	10.0
100	12	-	45	60	.139	1	4.7	.65	2	5.5	1.80	2	6.4	5.75	2	7.0	20.	2	10.0
110	11	137	35	50	.167	1	4.8	.80	2	5.5	2.25	2	6.	6.76	2	6.5	22.	2	10.0
120	11	-	35	50	.167	1	4.8	.80	2	5.5	2.25	2	6.	6.75	2	7.1	24.	2	10.0

# **Square Root of the Numbers or Counts, from One to Two Hundred Hanks in the Pound, with the Twist per Inch for Different Kinds of Yarns**

The heavy figures opposite No. 1 show the multipliers for the square root of all numbers throughout the tables.

Counts or Numbers	Square Root	Ordinary Warp Twist	Low Warp Twist	Ordinary Mule Twist	Filling Twist	Ordinary Hosiery Twist	Medium Hosiery Twist
1	1.00	<b>4.75</b>	<b>4.20</b>	<b>3.75</b>	<b>3.25</b>	<b>2.75</b>	<b>2.50</b>
2	1.41	6.72	5.65	5.30	4.60	3.88	3.53
3	1.73	8.23	6.92	6.49	5.62	4.76	4.33
4	2.00	9.50	8.00	7.50	6.50	5.50	5.00
5	2.23	10.62	8.94	8.37	7.26	6.14	5.59
6	2.44	11.64	9.79	9.18	7.96	6.73	6.12
7	2.64	12.57	10.58	9.92	8.59	7.27	6.61
8	2.82	13.44	11.31	10.50	9.19	7.77	7.07
9	3.00	14.25	12.00	11.25	9.75	8.25	7.50
10	3.16	15.02	12.64	11.85	10.27	8.79	7.90
11	3.31	15.75	13.26	12.43	10.77	9.12	8.29
12	3.46	16.45	13.85	12.99	11.25	9.52	8.66
14	3.74	17.77	14.96	14.03	12.16	10.28	9.35
16	4.00	19.00	16.00	15.00	13.00	11.00	10.00
18	4.24	20.15	16.97	15.90	13.78	11.66	10.60
20	4.47	21.24	17.88	16.77	14.53	12.29	11.18
22	4.69	22.28	18.76	17.58	15.24	12.89	11.73
24	4.89	23.27	19.59	18.37	15.92	13.47	12.25
26	5.09	24.22	20.39	19.11	16.57	14.02	12.75
28	5.29	25.13	21.16	19.84	17.19	14.55	13.23
30	5.47	26.02	21.90	20.53	17.80	15.06	13.69
35	5.91	28.10	23.66	22.18	19.22	16.27	14.79
40	6.32	30.04	25.29	23.71	20.55	17.39	15.81
45	6.70	31.86	26.83	25.15	21.80	18.44	16.77
50	7.07	33.59	28.28	26.51	22.98	19.44	17.68
55	7.41	35.23	29.66	27.81	24.10	20.39	18.54
60	7.74	36.79	30.98	29.04	25.17	21.30	19.36
65	8.06	38.30	32.24	30.23	26.20	22.17	
70	8.36	39.74	33.46	31.37	27.19	23.00	
75	8.66	41.14	34.64	32.47	28.14	23.81	
80	8.94	42.49	35.77	33.54	29.06	24.59	
85	9.21	43.79	36.87	34.57	29.96	25.35	
90	9.48	45.06	37.94	35.47	30.83	26.08	
95	9.74	46.30	38.98	36.55	31.67	26.80	
100	10.00	47.50	40.00	37.50	32.50	27.50	
110	10.48	49.82	41.95	39.33	34.08	28.84	
120	10.95	52.03	43.81	41.07	35.60	30.12	
130	11.40	54.16	45.60	42.75	37.05	31.35	
140	11.83	56.20	47.32	44.37	38.47	32.54	
150	12.24	58.04	48.98	45.92	39.80	33.68	
160	12.64	60.04	50.59	47.43	41.10	34.78	
170	13.03	61.89	52.15	48.89	42.37	35.85	
180	13.41	63.70	53.66	50.31	43.60	36.89	
190	13.78	65.46	55.13	51.69	44.79	37.90	
200	14.14	67.17	56.56	53.03	45.96	38.89	

### Comparison of English and French Counts of Cotton Yarn

English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts
1	0.847	17	14.40	46	38.96	78	66.07	150	127.05
2	1.693	18	15.25	48	40.66	80	67.76	160	135.52
3	2.540	19	16.09	50	42.35	82	69.45	170	143.99
4	3.388	20	16.94	52	44.04	84	71.15	180	152.46
5	4.235	22	18.63	54	45.74	86	72.84	190	160.93
6	5.082	24	20.33	56	47.43	88	74.54	200	169.40
7	5.929	26	22.02	58	49.13	90	76.23	210	177.87
8	6.776	28	23.72	60	50.82	92	77.92	220	186.34
9	7.623	30	25.41	62	52.51	94	79.62	230	194.81
10	8.470	32	27.10	64	54.21	96	81.31	240	203.28
11	9.313	34	28.80	66	55.90	98	83.01	250	211.75
12	10.16	36	30.49	68	57.00	100	84.70	260	220.22
13	11.01	38	32.19	70	59.29	110	93.17	270	228.69
14	11.86	40	33.88	72	60.98	120	101.64	280	237.16
15	12.70	42	35.57	74	62.68	130	110.11	290	245.63
16	13.55	44	37.27	76	64.37	140	118.58	300	254.10

### Comparison of French and English Counts of Cotton Yarn

French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts
1	1.18	17	20.1	46	54.3	78	92.—	150	177.—
2	2.36	18	21.2	48	56.6	80	94.4	160	189.—
3	3.54	19	22.4	50	59.—	82	96.8	170	201.—
4	4.72	20	23.6	52	61.4	84	99.2	180	212.—
5	5.90	22	26.—	54	63.7	86	101.5	190	224.—
6	7.08	24	28.3	56	66.1	88	103.8	200	236.—
7	8.26	26	30.7	58	68.4	90	106.2	210	247.8
8	9.44	28	33.—	60	70.8	92	108.6	220	260.—
9	10.6	30	35.4	62	73.1	94	110.9	230	271.4
10	11.8	32	37.8	64	75.5	96	113.2	240	283.—
11	13.—	34	40.1	66	77.9	98	115.6	250	295.—
12	14.2	36	42.5	68	80.2	100	118.—	260	307.—
13	15.3	38	44.8	70	82.6	110	130.—	270	318.6
14	16.5	40	47.2	72	84.9	120	141.6	280	330.—
15	17.7	42	49.6	74	87.3	130	153.—	290	342.2
16	18.9	44	51.9	76	89.7	140	165.—	300	354.—

## Yarn Table

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
1.	1,000.	.3	81.30	.6	56.82	.9	43.67	.2	35.46
2.	500.	.4	80.65	.7	56.50	23.	43.48	.3	35.34
3.	333.3	.5	80.00	.8	56.18	.1	43.29	.4	35.21
4.	250.0	.6	79.37	.9	55.87	.2	43.10	.5	35.09
5.	200.0	.7	78.74	18.	55.56	.3	42.92	.6	34.97
5.5	181.8	.8	78.12	.1	55.25	.4	42.74	.7	34.84
6.	166.7	.9	77.52	.2	54.95	.5	42.55	.8	34.72
6.5	153.8	13.	76.92	.3	54.64	.6	42.37	.9	34.60
7.	142.9	.1	76.34	.4	54.35	.7	42.19	29.	34.48
7.5	133.3	.2	75.76	.5	54.05	.8	42.02	.1	34.36
8.	125.0	.3	75.19	.6	53.76	.9	41.84	.2	34.25
.1	123.5	.4	74.63	.7	53.48	24.	41.67	.3	34.13
.2	122.0	.5	74.07	.8	53.19	.1	41.49	.4	34.01
.3	120.5	.6	73.53	.9	52.91	.2	41.32	.5	33.90
.4	119.0	.7	72.99	19.	52.63	.3	41.15	.6	33.78
.5	117.6	.8	72.46	.1	52.36	.4	40.98	.7	33.67
.6	116.3	.9	71.94	.2	52.08	.5	40.82	.8	33.56
.7	114.9	14.	71.43	.3	51.81	.6	40.65	.9	33.44
.8	113.6	.1	70.92	.4	51.55	.7	40.49	30.	33.33
.9	112.4	.2	70.42	.5	51.28	.8	40.32	.1	33.22
9.	111.1	.3	69.93	.6	51.02	.9	40.16	.2	33.11
.1	109.9	.4	69.44	.7	50.76	25.	40.00	.3	33.00
.2	108.7	.5	68.97	.8	50.51	.1	39.84	.4	32.89
.3	107.5	.6	68.49	.9	50.25	.2	39.68	.5	32.79
.4	106.4	.7	68.03	20.	50.00	.3	39.53	.6	32.68
.5	105.3	.8	67.57	.1	49.75	.4	39.37	.7	32.57
.6	104.2	.9	67.11	.2	49.50	.5	39.22	.8	32.47
.7	103.1	15.	66.67	.3	49.26	.6	39.06	.9	32.36
.8	102.0	.1	66.23	.4	49.02	.7	38.91	31.	32.26
.9	101.0	.2	65.79	.5	48.78	.8	38.76	.1	32.16
10.	100.0	.3	65.36	.6	48.54	.9	38.61	.2	32.05
.1	99.01	.4	64.94	.7	48.31	26.	38.46	.3	31.95
.2	98.04	.5	64.52	.8	48.08	.1	38.31	.4	31.85
.3	97.09	.6	64.10	.9	47.85	.2	38.17	.5	31.75
.4	96.15	.7	63.69	21.	47.62	.3	38.02	.6	31.65
.5	95.24	.8	63.29	.1	47.33	.4	37.88	.7	31.55
.6	94.34	.9	62.89	.2	47.17	.5	37.74	.8	31.45
.7	93.46	16.	62.50	.3	46.95	.6	37.59	.9	31.35
.8	92.59	.1	62.11	.4	46.73	.7	37.45	32.	31.25
.9	91.74	.2	61.73	.5	46.51	.8	37.31	.1	31.15
11.	90.91	.3	61.35	.6	46.30	.9	37.17	.2	31.06
.1	90.09	.4	60.98	.7	46.08	27.	37.04	.3	30.96
.2	89.29	.5	60.61	.8	45.87	.1	36.90	.4	30.86
.3	88.50	.6	60.24	.9	45.66	.2	36.77	.5	30.77
.4	87.72	.7	59.88	22.	45.45	.3	36.63	.6	30.67
.5	86.96	.8	59.52	.1	45.25	.4	36.50	.7	30.58
.6	86.21	.9	59.17	.2	45.05	.5	36.36	.8	30.49
.7	85.47	17.	58.82	.3	44.84	.6	36.23	.9	30.40
.8	84.75	.1	58.48	.4	44.64	.7	36.10	33.	30.30
.9	84.03	.2	58.14	.5	44.44	.8	35.97	.1	30.21
12.	83.33	.3	57.80	.6	44.25	.9	35.84	.2	30.12
.1	82.64	.4	57.47	.7	44.05	28.	35.71	.3	30.03
.2	81.97	.5	57.14	.8	43.86	.1	35.59	.4	29.94

## Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
.5	29.85	.8	25.77	.1	22.68	.4	20.24	.7	18.28
.6	29.76	.9	25.71	.2	22.62	.5	20.20	.8	18.25
.7	29.67	39.	25.64	.3	22.57	.6	20.16	.9	18.21
.8	29.59	.1	25.58	.4	22.52	.7	20.12	55.	18.18
.9	29.50	.2	25.51	.5	22.47	.8	20.08	.1	18.15
34.	29.41	.3	25.45	.6	22.42	.9	20.04	.2	18.12
.1	29.33	.4	25.38	.7	22.37	50.	20.00	.3	18.08
.2	29.24	.5	25.32	.8	22.32	.1	19.96	.4	18.05
.3	29.15	.6	25.25	.9	22.27	.2	19.92	.5	18.02
.4	29.07	.7	25.19	45.	22.22	.3	19.88	.6	17.99
.5	28.99	.8	25.13	.1	22.17	.4	19.84	.7	17.95
.6	28.90	.9	25.06	.2	22.12	.5	19.80	.8	17.92
.7	28.82	40.	25.00	.3	22.08	.6	19.76	.9	17.89
.8	28.74	.1	24.94	.4	22.03	.7	19.72	56.	17.86
.9	28.65	.2	24.88	.5	21.98	.8	19.69	.1	17.83
35.	28.57	.3	24.81	.6	21.93	.9	19.65	.2	17.79
.1	28.49	.4	24.75	.7	21.88	51.	19.61	.3	17.76
.2	28.41	.5	24.69	.8	21.83	.1	19.57	.4	17.73
.3	28.33	.6	24.63	.9	21.79	.2	19.53	.5	17.70
.4	28.25	.7	24.57	46.	21.74	.3	19.49	.6	17.67
.5	28.17	.8	24.51	.1	21.69	.4	19.46	.7	17.64
.6	28.09	.9	24.45	.2	21.65	.5	19.42	.8	17.61
.7	28.01	41.	24.39	.3	21.60	.6	19.38	.9	17.57
.8	27.93	.1	24.33	.4	21.55	.7	19.34	57.	17.54
.9	27.86	.2	24.27	.5	21.51	.8	19.31	.1	17.51
36.	27.78	.3	24.21	.6	21.46	.9	19.27	.2	17.48
.1	27.70	.4	24.15	.7	21.41	52.	19.23	.3	17.45
.2	27.62	.5	24.10	.8	21.37	.1	19.19	.4	17.42
.3	27.55	.6	24.04	.9	21.32	.2	19.16	.5	17.39
.4	27.47	.7	23.98	47.	21.28	.3	19.12	.6	17.36
.5	27.40	.8	23.92	.1	21.23	.4	19.08	.7	17.33
.6	27.32	.9	23.87	.2	21.19	.5	19.05	.8	17.30
.7	27.25	42.	23.81	.3	21.14	.6	19.01	.9	17.27
.8	27.17	.1	23.75	.4	21.10	.7	18.98	58.	17.24
.9	27.10	.2	23.70	.5	21.05	.8	18.94	.1	17.21
37.	27.03	.3	23.64	.6	21.01	.9	18.90	.2	17.18
.1	26.95	.4	23.58	.7	20.96	53.	18.87	.3	17.15
.2	26.88	.5	23.53	.8	20.92	.1	18.83	.4	17.12
.3	26.81	.6	23.47	.9	20.88	.2	18.80	.5	17.09
.4	26.74	.7	23.42	48.	20.83	.3	18.76	.6	17.06
.5	26.67	.8	23.36	.1	20.79	.4	18.73	.7	17.04
.6	26.60	.9	23.31	.2	20.75	.5	18.69	.8	17.01
.7	26.53	43.	23.26	.3	20.70	.6	18.66	.9	16.98
.8	26.46	.1	23.20	.4	20.66	.7	18.62	59.	16.95
.9	26.39	.2	23.15	.5	20.62	.8	18.59	.1	16.92
38.	26.32	.3	23.09	.6	20.57	.9	18.55	.2	16.89
.1	26.25	.4	23.04	.7	20.53	54.	18.52	.3	16.86
.2	26.18	.5	22.99	.8	20.49	.1	18.48	.4	16.84
.3	26.11	.6	22.94	.9	20.45	.2	18.45	.5	16.81
.4	26.04	.7	22.88	49.	20.41	.3	18.42	.6	16.78
.5	25.97	.8	22.83	.1	20.37	.4	18.38	.7	16.75
.6	25.91	.9	22.78	.2	20.33	.5	18.35	.8	16.72
.7	25.84	44.	22.73	.3	20.28	.6	18.32	.9	16.69

**Yarn Table — (Continued)**

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
60.	16.67	.3	15.31	.6	14.16	.9	13.18	.2	12.32
.1	16.64	.4	15.29	.7	14.14	76.	13.16	.3	12.30
.2	16.61	.5	15.27	.8	14.12	.1	13.14	.4	12.29
.3	16.58	.6	15.24	.9	14.10	.2	13.12	.5	12.27
.4	16.56	.7	15.22	71.	14.08	.3	13.11	.6	12.25
.5	16.53	.8	15.20	.1	14.06	.4	13.09	.7	12.24
.6	16.50	.9	15.17	.2	14.04	.5	13.07	.8	12.22
.7	16.47	66.	15.15	.3	14.03	.6	13.05	.9	12.21
.8	16.45	.1	15.13	.4	14.01	.7	13.04	82.	12.20
.9	16.42	.2	15.11	.5	13.99	.8	13.02	.1	12.18
61.	16.39	.3	15.08	.6	13.97	.9	13.00	.2	12.17
.1	16.37	.4	15.06	.7	13.95	77.	12.99	.3	12.15
.2	16.34	.5	15.04	.8	13.93	.1	12.97	.4	12.14
.3	16.31	.6	15.02	.9	13.91	.2	12.95	.5	12.12
.4	16.29	.7	14.99	72.	13.89	.3	12.94	.6	12.11
.5	16.26	.8	14.97	.1	13.87	.4	12.92	.7	12.09
.6	16.23	.9	14.95	.2	13.85	.5	12.90	.8	12.08
.7	16.21	67.	14.93	.3	13.83	.6	12.89	.9	12.06
.8	16.19	.1	14.90	.4	13.81	.7	12.87	83.	12.05
.9	16.16	.2	14.88	.5	13.79	.8	12.85	.1	12.03
62.	16.13	.3	14.86	.6	13.77	.9	12.84	.2	12.02
.1	16.10	.4	14.84	.7	13.76	78.	12.82	.3	12.00
.2	16.08	.5	14.81	.8	13.74	.1	12.80	.4	11.99
.3	16.05	.6	14.79	.9	13.72	.2	12.79	.5	11.98
.4	16.03	.7	14.77	73.	13.70	.3	12.77	.6	11.96
.5	16.00	.8	14.75	.1	13.68	.4	12.76	.7	11.95
.6	15.97	.9	14.73	.2	13.66	.5	12.74	.8	11.93
.7	15.95	68.	14.71	.3	13.64	.6	12.72	.9	11.92
.8	15.92	.1	14.68	.4	13.62	.7	12.71	84.	11.90
.9	15.90	.2	14.66	.5	13.61	.8	12.69	.1	11.89
63.	15.87	.3	14.64	.6	13.59	.9	12.67	.2	11.88
.1	15.85	.4	14.62	.7	13.57	79.	12.66	.3	11.86
.2	15.83	.5	14.60	.8	13.55	.1	12.64	.4	11.85
.3	15.80	.6	14.58	.9	13.53	.2	12.63	.5	11.83
.4	15.77	.7	14.56	74.	13.51	.3	12.61	.6	11.82
.5	15.75	.8	14.53	.1	13.50	.4	12.59	.7	11.81
.6	15.72	.9	14.51	.2	13.48	.5	12.58	.8	11.79
.7	15.70	69.	14.49	.3	13.46	.6	12.56	.9	11.78
.8	15.67	.1	14.47	.4	13.44	.7	12.55	85.	11.76
.9	15.65	.2	14.45	.5	13.42	.8	12.53	.1	11.75
64.	15.62	.3	14.43	.6	13.40	.9	12.52	.2	11.74
.1	15.60	.4	14.41	.7	13.39	80.	12.50	.3	11.72
.2	15.58	.5	14.39	.8	13.37	.1	12.48	.4	11.71
.3	15.55	.6	14.37	.9	13.35	.2	12.47	.5	11.70
.4	15.53	.7	14.35	75.	13.33	.3	12.45	.6	11.68
.5	15.50	.8	14.33	.1	13.32	.4	12.44	.7	11.67
.6	15.48	.9	14.31	.2	13.30	.5	12.42	.8	11.66
.7	15.46	70.	14.29	.3	13.28	.6	12.41	.9	11.64
.8	15.43	.1	14.27	.4	13.26	.7	12.39	86.	11.63
.9	15.41	.2	14.25	.5	13.25	.8	12.38	.1	11.61
65.	15.38	.3	14.22	.6	13.23	.9	12.36	.2	11.60
.1	15.36	.4	14.20	.7	13.21	81.	12.35	.3	11.59
.2	15.34	.5	14.18	.8	13.19	.1	12.33	.4	11.57



## Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
.5	11.56	.8	10.89	.1	10.30	.4	9.77	.7	9.29
.6	11.55	.9	10.88	.2	10.29	.5	9.76	.8	9.28
.7	11.53	92.	10.87	.3	10.28	.6	9.75	.9	9.27
.8	11.52	.1	10.86	.4	10.27	.7	9.74	108.	9.26
.9	11.51	.2	10.85	.5	10.26	.8	9.73	.1	9.25
87.	11.49	.3	10.83	.6	10.25	.9	9.72	.2	9.24
.1	11.48	.4	10.82	.7	10.24	103.	9.71	.3	9.23
.2	11.47	.5	10.81	.8	10.22	.1	9.70	.4	9.23
.3	11.45	.6	10.80	.9	10.21	.2	9.69	.5	9.22
.4	11.44	.7	10.79	98.	10.20	.3	9.68	.6	9.21
.5	11.43	.8	10.78	.1	10.19	.4	9.67	.7	9.20
.6	11.42	.9	10.76	.2	10.18	.5	9.66	.8	9.19
.7	11.40	93.	10.75	.3	10.17	.6	9.65	.9	9.18
.8	11.39	.1	10.74	.4	10.16	.7	9.64	109.	9.17
.9	11.38	.2	10.73	.5	10.15	.8	9.63	.2	9.16
88.	11.36	.3	10.72	.6	10.14	.9	9.62	.4	9.14
.1	11.35	.4	10.71	.7	10.13	104.	9.62	.6	9.12
.2	11.34	.5	10.70	.8	10.12	.1	9.61	.8	9.11
.3	11.33	.6	10.68	.9	10.11	.2	9.60	110.	9.09
.4	11.31	.7	10.67	99.	10.10	.3	9.59	.2	9.07
.5	11.30	.8	10.66	.1	10.09	.4	9.58	.4	9.06
.6	11.29	.9	10.65	.2	10.08	.5	9.57	.6	9.04
.7	11.27	94.	10.64	.3	10.07	.6	9.56	.8	9.03
.8	11.26	.1	10.63	.4	10.06	.7	9.55	111.	9.01
.9	11.25	.2	10.62	.5	10.05	.8	9.54	.2	8.99
89.	11.24	.3	10.60	.6	10.04	.9	9.53	.4	8.98
.1	11.22	.4	10.59	.7	10.03	105.	9.52	.6	8.96
.2	11.21	.5	10.58	.8	10.02	.1	9.51	.8	8.94
.3	11.20	.6	10.57	.9	10.01	.2	9.51	112.	8.93
.4	11.19	.7	10.56	100.	10.00	.3	9.50	.2	8.91
.5	11.17	.8	10.55	.1	9.99	.4	9.49	.4	8.90
.6	11.16	.9	10.54	.2	9.98	.5	9.48	.6	8.88
.7	11.15	95.	10.53	.3	9.97	.6	9.47	.8	8.87
.8	11.14	.1	10.52	.4	9.96	.7	9.46	113.	8.85
.9	11.12	.2	10.50	.5	9.95	.8	9.45	.2	8.83
90.	11.11	.3	10.49	.6	9.94	.9	9.44	.4	8.82
.1	11.10	.4	10.48	.7	9.93	106.	9.43	.6	8.80
.2	11.09	.5	10.47	.8	9.92	.1	9.43	.8	8.79
.3	11.07	.6	10.46	.9	9.91	.2	9.42	114.	8.77
.4	11.06	.7	10.45	101.	9.90	.3	9.41	.2	8.76
.5	11.05	.8	10.44	.1	9.89	.4	9.40	.4	8.74
.6	11.04	.9	10.43	.2	9.88	.5	9.39	.6	8.73
.7	11.03	96.	10.42	.3	9.87	.6	9.38	.8	8.71
.8	11.01	.1	10.41	.4	9.86	.7	9.37	115.	8.70
.9	11.00	.2	10.40	.5	9.85	.8	9.36	.2	8.68
91.	10.99	.3	10.38	.6	9.84	.9	9.35	.4	8.67
.1	10.98	.4	10.37	.7	9.83	107.	9.35	.6	8.65
.2	10.96	.5	10.36	.8	9.82	.1	9.34	.8	8.64
.3	10.95	.6	10.35	.9	9.81	.2	9.33	116.	8.62
.4	10.94	.7	10.34	102.	9.80	.3	9.32	.2	8.61
.5	10.93	.8	10.33	.1	9.79	.4	9.31	.4	8.59
.6	10.92	.9	10.32	.2	9.78	.5	9.30	.6	8.58
.7	10.91	97.	10.31	.3	9.78	.6	9.29	.8	8.56

**Yarn Table — (Continued)**

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
117.	8.55	.5	7.33	163.	6.13	209.	4.78	274.	3.65
.2	8.53	137.	7.30	.5	6.12	210.	4.76	276.	3.62
.4	8.52	.5	7.27	164.	6.10	211.	4.74	278.	3.60
.6	8.50	138.	7.25	.5	6.08	212.	4.72	280.	3.57
.8	8.49	.5	7.22	165.	6.06	213.	4.69	282.	3.55
118.	8.47	139.	7.19	.5	6.04	214.	4.67	284.	3.52
.2	8.46	.5	7.17	166.	6.02	215.	4.65	286.	3.50
.4	8.45	140.	7.14	.5	6.01	216.	4.63	288.	3.47
.6	8.43	.5	7.12	167.	5.99	217.	4.61	290.	3.45
.8	8.42	141.	7.09	.5	5.97	218.	4.59	292.	3.42
119.	8.40	.5	7.07	168.	5.95	219.	4.57	294.	3.40
.2	8.39	142.	7.04	.5	5.93	220.	4.55	296.	3.38
.4	8.38	.5	7.02	169.	5.92	221.	4.52	298.	3.36
.6	8.36	143.	6.99	.5	5.90	222.	4.50	300.	3.33
.8	8.35	.5	6.97	170.	5.88	223.	4.48	302.	3.31
120.	8.33	144.	6.94	.5	5.85	224.	4.46	304.	3.29
.2	8.32	.5	6.92	172.	5.81	225.	4.44	306.	3.27
.4	8.31	145.	6.90	.5	5.78	226.	4.42	308.	3.25
.6	8.29	.5	6.87	174.	5.75	227.	4.41	310.	3.23
.8	8.28	146.	6.85	.5	5.71	228.	4.39	312.	3.21
121.	8.26	.5	6.83	176.	5.68	229.	4.37	314.	3.18
.4	8.24	147.	6.80	.5	5.65	230.	4.35	316.	3.17
.6	8.22	.5	6.78	178.	5.62	231.	4.33	318.	3.14
.8	8.21	148.	6.76	.5	5.59	232.	4.31	320.	3.12
122.	8.20	.5	6.73	180.	5.56	233.	4.29	322.	3.11
.5	8.16	149.	6.71	.5	5.52	234.	4.27	324.	3.09
123.	8.13	.5	6.69	182.	5.49	235.	4.26	326.	3.07
.5	8.10	150.	6.67	.5	5.46	236.	4.24	328.	3.05
124.	8.06	.5	6.64	184.	5.43	237.	4.22	330.	3.03
.5	8.03	151.	6.62	.5	5.41	238.	4.20	332.	3.01
125.	8.00	.5	6.60	186.	5.38	239.	4.18	334.	2.99
.5	7.97	152.	6.58	.5	5.35	240.	4.17	336.	2.98
126.	7.94	.5	6.56	188.	5.32	241.	4.15	338.	2.96
.5	7.91	153.	6.54	.5	5.29	242.	4.13	340.	2.94
127.	7.87	.5	6.51	190.	5.26	243.	4.12	342.	2.92
.5	7.84	154.	6.49	.5	5.24	244.	4.10	344.	2.91
128.	7.81	.5	6.47	192.	5.21	245.	4.08	346.	2.89
.5	7.78	155.	6.45	.5	5.18	246.	4.07	348.	2.87
129.	7.75	.5	6.43	194.	5.15	247.	4.05	350.	2.86
.5	7.72	156.	6.41	.5	5.13	248.	4.03	352.	2.84
130.	7.69	.5	6.39	196.	5.10	249.	4.02	354.	2.82
.5	7.66	157.	6.36	.5	5.08	250.	4.00	356.	2.81
131.	7.63	.5	6.35	198.	5.05	252.	3.97	358.	2.79
.5	7.60	158.	6.33	.5	5.03	254.	3.94	360.	2.78
132.	7.58	.5	6.31	200.	5.00	256.	3.91	362.	2.76
.5	7.55	159.	6.29	.5	4.98	258.	3.88	364.	2.75
133.	7.52	.5	6.27	202.	4.95	260.	3.85	366.	2.73
.5	7.49	160.	6.25	.5	4.93	262.	3.82	368.	2.72
134.	7.46	.5	6.23	204.	4.90	264.	3.79	370.	2.70
.5	7.43	161.	6.21	.5	4.88	266.	3.76	372.	2.69
135.	7.41	.5	6.19	206.	4.85	268.	3.73	374.	2.67
.5	7.38	162.	6.17	.5	4.83	270.	3.70	376.	2.66
136.	7.35	.5	6.15	208.	4.81	272.	3.68	378.	2.65

**Yarn Table — (Concluded)**

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
380.	2.63	450.	2.22	525.	1.90	600.	1.67	750.	1.33
382.	2.62	455.	2.20	530.	1.89	610.	1.64	760.	1.32
385.	2.60	460.	2.17	535.	1.87	620.	1.61	770.	1.30
390.	2.56	465.	2.15	540.	1.85	630.	1.59	780.	1.28
395.	2.53	470.	2.13	545.	1.83	640.	1.56	790.	1.27
400.	2.50	475.	2.11	550.	1.82	650.	1.54	800.	1.25
405.	2.47	480.	2.08	555.	1.80	660.	1.52	820.	1.22
410.	2.44	485.	2.06	560.	1.79	670.	1.49	840.	1.19
415.	2.41	490.	2.04	565.	1.77	680.	1.47	860.	1.16
420.	2.38	495.	2.02	570.	1.75	690.	1.45	880.	1.14
425.	2.35	500.	2.00	575.	1.74	700.	1.43	900.	1.11
430.	2.33	505.	1.98	580.	1.72	710.	1.41	925.	1.08
435.	2.30	510.	1.96	585.	1.71	720.	1.39	950.	1.05
440.	2.27	515.	1.94	590.	1.69	730.	1.37	975.	1.03
445.	2.25	520.	1.92	595.	1.68	740.	1.35	1,000.	1.00

**Yarn Number**

To find the yarn number or count:

$$\frac{\text{Number of yards in Sample} \times \text{Grains in a Pound}}{\text{Weight of sample in grains} \times \text{standard}} = \text{Yarn Number}$$

Or for cotton yarn using a 120 yard skein:

$$\frac{120 \times 7,000}{\text{Weight of sample} \times 840} = \frac{1,000}{\text{Weight of sample in grains}} = \text{Yarn Number}$$

## Comparative Yarn Tables

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale	Woolen Run Scale
1	840	52 $\frac{1}{2}$	5,314.915	2.800	1 $\frac{1}{2}$	.525
2	1,680	105	2,657.457	5.600	3	1.05
3	2,520	157 $\frac{1}{2}$	1,771.638	8.400	4 $\frac{1}{2}$	1.58
4	3,360	210	1,328.729	11.200	6	2.10
5	4,200	262 $\frac{1}{2}$	1,062.983	14.000	7 $\frac{1}{2}$	2.63
6	5,040	315	885.819	16.800	9	3.15
7	5,880	367 $\frac{1}{2}$	759.274	19.600	10 $\frac{1}{2}$	3.68
8	6,720	420	664.364	22.400	12	4.20
9	7,560	472 $\frac{1}{2}$	590.546	25.200	13 $\frac{1}{2}$	4.73
10	8,400	525	531.491	28.000	15	5.25
11	9,240	577 $\frac{1}{2}$	483.172	30.800	16 $\frac{1}{2}$	5.78
12	10,080	630	442.910	33.600	18	6.30
13	10,920	682 $\frac{1}{2}$	408.839	36.400	19 $\frac{1}{2}$	6.83
14	11,760	735	379.637	39.200	21	7.35
15	12,600	787 $\frac{1}{2}$	354.328	42.000	22 $\frac{1}{2}$	7.88
16	13,440	840	332.182	44.800	24	8.40
17	14,280	892 $\frac{1}{2}$	312.642	47.600	25 $\frac{1}{2}$	8.93
18	15,120	945	295.273	50.400	27	9.45
19	15,960	997 $\frac{1}{2}$	279.732	53.200	28 $\frac{1}{2}$	9.98
20	16,800	1,050	265.746	56.000	30	10.50
21	17,640	1,102 $\frac{1}{2}$	253.091	58.800	31 $\frac{1}{2}$	11.03
22	18,480	1,155	241.586	61.600	33	11.55
23	19,320	1,207 $\frac{1}{2}$	231.083	64.400	34 $\frac{1}{2}$	12.08
24	20,160	1,260	221.455	67.200	36	12.60
25	21,000	1,312 $\frac{1}{2}$	212.597	70.000	37 $\frac{1}{2}$	13.13
26	21,840	1,365	204.420	72.800	39	13.65
27	22,680	1,417 $\frac{1}{2}$	196.849	75.600	40 $\frac{1}{2}$	14.18
28	23,520	1,470	189.818	78.400	42	14.70
29	24,360	1,522 $\frac{1}{2}$	183.273	81.200	43 $\frac{1}{2}$	15.23
30	25,200	1,575	177.164	84.000	45	15.75
31	26,040	1,627 $\frac{1}{2}$	171.449	86.800	46 $\frac{1}{2}$	16.28
32	26,880	1,680	166.091	89.600	48	16.80
33	27,720	1,732 $\frac{1}{2}$	161.057	92.400	49 $\frac{1}{2}$	17.33
34	28,560	1,785	156.321	95.200	51	17.85
35	29,400	1,837 $\frac{1}{2}$	151.855	98.000	52 $\frac{1}{2}$	18.38
36	30,240	1,890	147.637	100.800	54	18.90
37	31,080	1,942 $\frac{1}{2}$	143.646	103.600	55 $\frac{1}{2}$	19.43
38	31,920	1,995	139.866	106.400	57	19.95
39	32,760	2,047 $\frac{1}{2}$	136.280	109.200	58 $\frac{1}{2}$	20.48
40	33,600	2,100	132.873	112.000	60	21.00
41	34,440	2,152 $\frac{1}{2}$	129.632	114.800	61 $\frac{1}{2}$	21.53
42	35,280	2,205	126.546	117.600	63	22.05
43	36,120	2,257 $\frac{1}{2}$	123.603	120.400	64 $\frac{1}{2}$	22.58
44	36,960	2,310	120.793	123.200	66	23.10
45	37,800	2,362 $\frac{1}{2}$	118.109	126.000	67 $\frac{1}{2}$	23.62
46	38,640	2,415	115.542	128.800	69	24.15
47	39,480	2,467 $\frac{1}{2}$	113.083	131.600	70 $\frac{1}{2}$	24.68
48	40,320	2,520	110.727	134.400	72	25.20
49	41,160	2,572 $\frac{1}{2}$	108.468	137.200	73 $\frac{1}{2}$	-
50	42,000	2,625	106.298	140.000	75	-

## Comparative Yarn Tables — (Concluded)

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale
52	43,680	2,730	102.210	145.600	78
54	45,360	2,835	98.425	151.200	81
56	47,040	2,940	94.909	156.800	84
58	48,720	3,045	91.637	162.400	87
60	50,400	3,150	88.582	168.000	90
62	52,080	3,255	85.725	173.600	93
64	53,760	3,360	83.045	179.200	96
66	55,440	3,465	80.529	184.800	99
68	57,120	3,570	78.161	190.400	102
70	58,800	3,675	75.927	196.000	105
72	60,480	3,780	73.818	201.600	108
74	62,160	3,885	71.823	207.200	111
76	63,840	3,990	69.933	212.800	114
78	65,520	4,095	68.140	218.400	117
80	67,200	4,200	66.436	224.000	120
90	75,600	4,725	59.055	252.000	135
100	84,000	5,250	53.149	280.000	150
110	92,400	5,775	48.317	308.000	—
120	100,800	6,300	44.291	336.000	—
130	109,200	6,825	40.884	364.000	—
140	117,600	7,350	37.964	392.000	—
150	126,000	7,875	35.433	420.000	—
160	134,400	8,400	33.218	448.000	—
170	142,800	8,925	31.264	476.000	—
180	151,200	9,450	29.527	504.000	—
190	159,600	9,975	27.973	532.000	—
200	168,000	10,500	26.575	560.000	—
225	189,000	11,812½	23.622	630.000	—
250	210,000	13,125	21.260	700.000	—
275	231,000	14,437½	19.327	770.000	—
300	252,000	15,750	17.716	840.000	—
325	273,000	17,062½	16.354	910.000	—
350	294,000	18,375	15.186	980.000	—
375	315,000	19,687½	14.173	1,050.000	—
400	336,000	21,000	13.287	1,120.000	—
425	357,000	22,312½	12.506	1,190.000	—
450	378,000	23,625	11.811	1,260.000	—
475	399,000	24,937½	11.189	1,330.000	—
500	420,000	26,250	10.630	1,400.000	—
525	441,000	27,562½	10.124	1,470.000	—
550	462,000	28,875	9.664	1,540.000	—
575	483,000	30,187½	9.244	1,610.000	—
600	504,000	31,500	8.858	1,680.000	—

### Warper Production Calculation

To find pounds of production multiply the yards warped per minute by the multiplier opposite the number of yarn warped, and the product by the hours of operation times the number of ends. Example: To find the product of a warper running 52 yards per minute, on No. 18 yarn, with 410 ends on beam, for 40 hours (actual running time),  $52 \times .00397 \times 410 \times 40 = 3385.6$ .

Number of Yarn	Multipliers	Number of Yarn	Multipliers	Number of Yarn	Multipliers
6	.01190	27	.00265	48	.00149
7	.01020	28	.00255	49	.00146
8	.00893	29	.00246	50	.00143
9	.00794	30	.00238	52	.00137
10	.00714	31	.00230	54	.00132
11	.00649	32	.00223	56	.00127
12	.00595	33	.00213	58	.00123
13	.00549	34	.00210	60	.00119
14	.00510	35	.00204	62	.00115
15	.00476	36	.00198	64	.00112
16	.00446	37	.00193	66	.00108
17	.00420	38	.00188	68	.00105
18	.00397	39	.00183	70	.00102
19	.00376	40	.00179	75	.00095
20	.00357	41	.00174	80	.00089
21	.00340	42	.00170	85	.00084
22	.00325	43	.00166	90	.00079
23	.00311	44	.00162	95	.00075
24	.00298	45	.00159	100	.00071
25	.00286	46	.00155		
26	.00275	47	.00152		

# Table for Use in Converting Linear Yards into Square Yards

Bureau of Census

The following table is made out in parallel columns. The first column refers to the width, in inches, of the woven products while the opposite figure represents the "equivalent" in square yards.

To convert linear yards to square yards, take the "equivalent" opposite the number representing the width in inches and multiply by the number of linear yards. Example: To convert 1,386,520 linear yards of cloth  $38\frac{1}{2}$  inches wide into square yards — the "equivalent" of  $38\frac{1}{2}$  inches is 1.069, which multiplied by 1,386,520 gives 1,482,190 square yards.

Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards	Width in Inches	Equi- valent Square Yards
12½	.347	28½	.792	44½	1.236	60½	1.681	76½	2.125	92½	2.569
13	.361	29	.806	45	1.250	61	1.694	77	2.139	93	2.583
13½	.375	29½	.819	45½	1.264	61½	1.708	77½	2.163	93½	2.597
14	.389	30	.833	46	1.278	62	1.722	78	2.167	94	2.611
14½	.403	30½	.847	46½	1.292	62½	1.736	78½	2.181	94½	2.625
15	.417	31	.861	47	1.306	63	1.750	79	2.194	95	2.639
15½	.431	31½	.875	47½	1.319	63½	1.764	79½	2.208	95½	2.653
16	.444	32	.889	48	1.333	64	1.778	80	2.222	96	2.667
16½	.458	32½	.903	48½	1.347	64½	1.792	80½	2.236	96½	2.681
17	.472	33	.917	49	1.361	65	1.806	81	2.250	97	2.694
17½	.486	33½	.931	49½	1.375	65½	1.819	81½	2.264	97½	2.708
18	.500	34	.944	50	1.389	66	1.833	82	2.278	98	2.722
18½	.514	34½	.958	50½	1.403	66½	1.847	82½	2.292	98½	2.736
19	.528	35	.972	51	1.417	67	1.861	83	2.306	99	2.750
19½	.542	35½	.986	51½	1.431	67½	1.875	83½	2.319	99½	2.764
20	.556	36	1.000	52	1.444	68	1.889	84	2.333	100	2.778
20½	.569	36½	1.014	52½	1.458	68½	1.903	84½	2.347	100½	2.792
21	.583	37	1.028	53	1.472	69	1.917	85	2.361	101	2.806
21½	.597	37½	1.042	53½	1.486	69½	1.931	85½	2.375	101½	2.819
22	.611	38	1.056	54	1.500	70	1.944	86	2.389	102	2.833
22½	.625	38½	1.069	54½	1.514	70½	1.958	86½	2.403	102½	2.847
23	.639	39	1.083	55	1.528	71	1.972	87	2.417	103	2.861
23½	.653	39½	1.097	55½	1.542	71½	1.986	87½	2.431	103½	2.875
24	.667	40	1.111	56	1.556	72	2.000	88	2.444	104	2.889
24½	.681	40½	1.125	56½	1.569	72½	2.014	88½	2.458	104½	2.903
25	.694	41	1.139	57	1.583	73	2.028	89	2.472	105	2.917
25½	.708	41½	1.153	57½	1.597	73½	2.042	89½	2.486	105½	2.931
26	.722	42	1.167	58	1.611	74	2.056	90	2.500	106	2.944
26½	.736	42½	1.181	58½	1.625	74½	2.069	90½	2.514	106½	2.958
27	.750	43	1.194	59	1.639	75	2.083	91	2.528	107	2.972
27½	.764	43½	1.208	59½	1.653	75½	2.097	91½	2.542	107½	2.986
28	.778	44	1.222	60	1.667	76	2.111	92	2.556	108	3.000

## Yards of Cloth per Loom per Hour

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	100	105	110	115	120	125	130	135	140	145	150
20	8.33	8.75	9.17	9.58	10.00	10.42	10.83	11.25	11.67	12.08	12.50
22	7.58	7.95	8.33	8.71	9.09	9.47	9.85	10.23	10.61	10.98	11.36
24	6.94	7.29	7.64	7.99	8.33	8.68	9.03	9.37	9.72	10.07	10.42
26	6.41	6.73	7.05	7.37	7.69	8.01	8.33	8.65	8.97	9.29	9.62
28	5.95	6.25	6.55	6.85	7.14	7.44	7.74	8.04	8.33	8.63	8.93
30	5.56	5.83	6.11	6.39	6.67	6.94	7.22	7.50	7.78	8.06	8.33
32	5.21	5.47	5.73	5.99	6.25	6.51	6.77	7.03	7.29	7.55	7.81
34	4.90	5.15	5.39	5.64	5.88	6.13	6.37	6.62	6.86	7.11	7.35
36	4.63	4.86	5.09	5.32	5.56	5.79	6.02	6.25	6.48	6.71	6.94
38	4.39	4.61	4.82	5.04	5.26	5.48	5.70	5.92	6.14	6.36	6.58
40	4.17	4.37	4.58	4.79	5.00	5.21	5.42	5.63	5.83	6.04	6.25
42	3.97	4.17	4.37	4.56	4.76	4.96	5.16	5.36	5.56	5.75	5.95
44	3.79	3.98	4.17	4.36	4.55	4.73	4.92	5.11	5.30	5.49	5.68
46	3.62	3.80	3.99	4.17	4.35	4.53	4.71	4.89	5.07	5.25	5.43
48	3.47	3.65	3.82	3.99	4.17	4.34	4.51	4.69	4.86	5.03	5.21
50	3.33	3.50	3.67	3.83	4.00	4.17	4.33	4.50	4.67	4.83	5.00
52	3.21	3.37	3.53	3.69	3.85	4.01	4.17	4.33	4.49	4.65	4.81
54	3.09	3.24	3.40	3.55	3.70	3.86	4.01	4.17	4.32	4.48	4.63
56	2.98	3.13	3.27	3.42	3.57	3.72	3.87	4.02	4.17	4.32	4.46
58	2.87	3.02	3.16	3.30	3.45	3.59	3.74	3.88	4.02	4.17	4.31
60	2.78	2.92	3.06	3.19	3.33	3.47	3.61	3.75	3.89	4.03	4.17
62	2.69	2.82	2.96	3.09	3.23	3.36	3.49	3.63	3.76	3.90	4.03
64	2.60	2.73	2.86	2.99	3.13	3.26	3.39	3.52	3.65	3.78	3.91
66	2.53	2.65	2.78	2.90	3.03	3.16	3.28	3.41	3.54	3.66	3.79
68	2.45	2.57	2.70	2.82	2.94	3.06	3.19	3.31	3.43	3.55	3.68
70	2.38	2.50	2.62	2.74	2.86	2.98	3.10	3.21	3.33	3.45	3.57
72	2.31	2.43	2.55	2.66	2.78	2.89	3.01	3.13	3.24	3.36	3.47
74	2.25	2.36	2.48	2.59	2.70	2.82	2.93	3.04	3.15	3.27	3.38
76	2.19	2.30	2.41	2.52	2.63	2.74	2.85	2.96	3.07	3.18	3.29
78	2.14	2.24	2.35	2.46	2.56	2.67	2.78	2.88	2.99	3.10	3.21
80	2.08	2.19	2.29	2.40	2.50	2.60	2.71	2.81	2.92	3.02	3.13
82	2.03	2.13	2.24	2.34	2.44	2.54	2.64	2.74	2.85	2.95	3.05
84	1.98	2.08	2.18	2.28	2.38	2.48	2.58	2.68	2.78	2.88	2.98
86	1.94	2.03	2.13	2.23	2.33	2.42	2.52	2.62	2.71	2.81	2.91
88	1.89	1.99	2.08	2.18	2.27	2.37	2.46	2.56	2.65	2.75	2.84
90	1.85	1.94	2.04	2.13	2.22	2.31	2.41	2.50	2.59	2.69	2.78
92	1.81	1.90	1.99	2.08	2.17	2.26	2.36	2.45	2.54	2.63	2.72
94	1.77	1.86	1.95	2.04	2.13	2.22	2.30	2.39	2.48	2.57	2.66
96	1.74	1.82	1.91	2.00	2.08	2.17	2.26	2.34	2.43	2.52	2.60
98	1.70	1.79	1.87	1.96	2.04	2.13	2.21	2.30	2.38	2.47	2.55
100	1.67	1.75	1.83	1.92	2.00	2.08	2.17	2.25	2.33	2.42	2.50



## Yards of Cloth per Loom per Hour — (Continued)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	155	160	165	170	175	180	185	190	195	200	205
20	12.92	13.33	13.75	14.17	14.58	15.00	15.42	15.83	16.25	16.67	17.08
22	11.74	12.12	12.50	12.88	13.26	13.64	14.02	14.39	14.77	15.15	15.53
24	10.76	11.11	11.46	11.81	12.15	12.50	12.85	13.19	13.54	13.89	14.24
26	9.94	10.26	10.58	10.90	11.22	11.54	11.86	12.18	12.50	12.82	13.14
28	9.23	9.52	9.82	10.12	10.42	10.71	11.01	11.31	11.61	11.90	12.20
30	8.61	8.89	9.17	9.44	9.72	10.00	10.28	10.55	10.83	11.11	11.39
32	8.07	8.33	8.59	8.85	9.11	9.37	9.64	9.90	10.16	10.42	10.68
34	7.60	7.84	8.09	8.33	8.58	8.82	9.07	9.31	9.56	9.80	10.05
36	7.18	7.41	7.64	7.87	8.10	8.33	8.56	8.80	9.03	9.26	9.49
38	6.80	7.02	7.24	7.46	7.68	7.89	8.11	8.33	8.55	8.77	8.99
40	6.46	6.67	6.87	7.08	7.29	7.50	7.71	7.92	8.13	8.33	8.54
42	6.15	6.35	6.55	6.75	6.94	7.14	7.34	7.54	7.74	7.94	8.13
44	5.87	6.06	6.25	6.44	6.63	6.82	7.01	7.20	7.39	7.58	7.77
46	5.62	5.80	5.98	6.16	6.34	6.52	6.70	6.88	7.07	7.25	7.43
48	5.38	5.56	5.73	5.90	6.08	6.25	6.42	6.60	6.77	6.94	7.12
50	5.17	5.33	5.50	5.67	5.83	6.00	6.17	6.33	6.50	6.67	6.83
52	4.97	5.13	5.29	5.45	5.61	5.77	5.93	6.09	6.25	6.41	6.57
54	4.78	4.94	5.09	5.25	5.40	5.56	5.71	5.86	6.02	6.17	6.33
56	4.61	4.76	4.91	5.06	5.21	5.36	5.51	5.65	5.80	5.95	6.10
58	4.45	4.60	4.74	4.88	5.03	5.17	5.32	5.46	5.60	5.75	5.89
60	4.31	4.44	4.58	4.72	4.86	5.00	5.14	5.28	5.42	5.56	5.69
62	4.17	4.30	4.44	4.57	4.70	4.84	4.97	5.11	5.24	5.38	5.51
64	4.04	4.17	4.30	4.43	4.56	4.69	4.82	4.95	5.08	5.21	5.34
66	3.91	4.04	4.17	4.29	4.42	4.55	4.67	4.80	4.92	5.05	5.18
68	3.80	3.92	4.04	4.17	4.29	4.41	4.53	4.66	4.78	4.90	5.02
70	3.69	3.81	3.93	4.05	4.17	4.29	4.40	4.52	4.64	4.76	4.88
72	3.59	3.70	3.82	3.94	4.05	4.17	4.28	4.40	4.51	4.63	4.75
74	3.49	3.60	3.72	3.83	3.94	4.05	4.17	4.28	4.39	4.50	4.62
76	3.40	3.51	3.62	3.73	3.84	3.95	4.06	4.17	4.28	4.39	4.50
78	3.31	3.42	3.53	3.63	3.74	3.85	3.95	4.06	4.17	4.27	4.38
80	3.23	3.33	3.44	3.54	3.65	3.75	3.85	3.96	4.06	4.17	4.27
82	3.15	3.25	3.35	3.46	3.56	3.66	3.76	3.86	3.96	4.07	4.17
84	3.08	3.17	3.27	3.37	3.47	3.57	3.66	3.77	3.87	3.97	4.07
86	3.00	3.10	3.20	3.29	3.39	3.49	3.58	3.68	3.78	3.88	3.97
88	2.94	3.03	3.13	3.22	3.31	3.41	3.50	3.60	3.69	3.79	3.88
90	2.87	2.96	3.06	3.15	3.24	3.33	3.43	3.52	3.61	3.70	3.80
92	2.81	2.90	2.99	3.08	3.17	3.26	3.35	3.44	3.53	3.62	3.71
94	2.75	2.84	2.93	3.01	3.10	3.19	3.28	3.37	3.46	3.55	3.63
96	2.69	2.78	2.86	2.95	3.04	3.13	3.21	3.30	3.39	3.47	3.56
98	2.64	2.72	2.81	2.89	2.98	3.06	3.15	3.23	3.32	3.40	3.49
100	2.58	2.67	2.75	2.83	2.92	3.00	3.08	3.17	3.25	3.33	3.44

## Yards of Cloth per Loom per Hour — (Continued)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	100	105	110	115	120	125	130	135	140	145	150
102	1.63	1.72	1.80	1.88	1.96	2.04	2.12	2.21	2.29	2.37	2.45
104	1.60	1.68	1.76	1.84	1.92	2.00	2.08	2.16	2.24	2.32	2.40
106	1.57	1.65	1.73	1.81	1.89	1.97	2.04	2.12	2.20	2.28	2.36
108	1.54	1.62	1.70	1.77	1.85	1.93	2.01	2.08	2.16	2.24	2.31
110	1.52	1.59	1.67	1.74	1.82	1.89	1.97	2.05	2.12	2.20	2.27
112	1.49	1.56	1.64	1.71	1.79	1.86	1.93	2.01	2.08	2.16	2.23
114	1.46	1.54	1.61	1.68	1.75	1.83	1.90	1.97	2.05	2.12	2.19
116	1.44	1.51	1.58	1.65	1.72	1.80	1.87	1.94	2.01	2.08	2.16
118	1.41	1.48	1.55	1.62	1.69	1.77	1.84	1.91	1.98	2.05	2.12
120	1.39	1.46	1.53	1.60	1.67	1.74	1.81	1.87	1.94	2.01	2.08
122	1.37	1.43	1.50	1.57	1.64	1.71	1.78	1.84	1.91	1.98	2.04
124	1.34	1.41	1.48	1.55	1.61	1.68	1.75	1.81	1.88	1.95	2.01
126	1.32	1.39	1.46	1.52	1.59	1.65	1.72	1.79	1.85	1.92	1.98
128	1.30	1.37	1.43	1.50	1.56	1.63	1.69	1.76	1.82	1.89	1.95
130	1.28	1.35	1.41	1.47	1.54	1.60	1.67	1.73	1.79	1.86	1.92
134	1.24	1.31	1.37	1.43	1.49	1.55	1.62	1.68	1.74	1.80	1.87
136	1.23	1.29	1.35	1.41	1.47	1.53	1.59	1.65	1.72	1.78	1.84
140	1.19	1.25	1.31	1.37	1.43	1.49	1.55	1.61	1.67	1.73	1.79
144	1.16	1.22	1.27	1.33	1.39	1.45	1.50	1.56	1.62	1.68	1.74
146	1.14	1.20	1.26	1.31	1.37	1.43	1.48	1.54	1.60	1.66	1.71
150	1.11	1.17	1.22	1.28	1.33	1.39	1.44	1.50	1.56	1.61	1.67
154	1.08	1.14	1.19	1.24	1.30	1.35	1.41	1.46	1.52	1.57	1.62
156	1.07	1.12	1.18	1.23	1.28	1.34	1.39	1.44	1.50	1.55	1.60
160	1.04	1.09	1.15	1.20	1.25	1.30	1.35	1.41	1.46	1.51	1.56
164	1.02	1.07	1.12	1.17	1.22	1.27	1.32	1.37	1.42	1.47	1.52
166	1.00	1.05	1.10	1.15	1.20	1.26	1.31	1.35	1.41	1.46	1.51
170	.98	1.03	1.08	1.13	1.18	1.23	1.27	1.32	1.37	1.42	1.47
174	.96	1.01	1.05	1.10	1.15	1.20	1.25	1.29	1.34	1.39	1.44
176	.95	.99	1.04	1.09	1.14	1.18	1.23	1.28	1.33	1.37	1.42
180	.93	.97	1.02	1.06	1.11	1.16	1.20	1.25	1.30	1.34	1.39

## Yards of Cloth per Loom per Hour — (Concluded)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	155	160	165	170	175	180	185	190	195	200	205
102	2.53	2.61	2.70	2.78	2.86	2.94	3.02	3.10	3.19	3.27	3.35
104	2.48	2.56	2.64	2.72	2.80	2.88	2.96	3.04	3.13	3.21	3.29
106	2.44	2.52	2.59	2.67	2.75	2.83	2.91	2.99	3.07	3.14	3.22
108	2.39	2.47	2.55	2.62	2.70	2.78	2.85	2.93	3.01	3.09	3.16
110	2.35	2.42	2.50	2.58	2.65	2.73	2.80	2.88	2.95	3.03	3.11
112	2.31	2.38	2.46	2.53	2.60	2.68	2.75	2.83	2.90	2.98	3.05
114	2.27	2.34	2.41	2.49	2.56	2.63	2.70	2.78	2.85	2.92	3.00
116	2.23	2.30	2.37	2.44	2.51	2.59	2.66	2.73	2.80	2.87	2.95
118	2.19	2.26	2.33	2.40	2.47	2.54	2.61	2.68	2.75	2.82	2.90
120	2.15	2.22	2.29	2.36	2.43	2.50	2.57	2.64	2.71	2.78	2.85
122	2.12	2.19	2.25	2.32	2.39	2.46	2.53	2.60	2.66	2.73	2.80
124	2.08	2.15	2.22	2.28	2.35	2.42	2.49	2.55	2.62	2.69	2.76
126	2.05	2.12	2.18	2.25	2.31	2.38	2.45	2.51	2.58	2.65	2.71
128	2.02	2.08	2.15	2.21	2.28	2.34	2.41	2.47	2.54	2.60	2.67
130	1.99	2.05	2.12	2.18	2.24	2.31	2.37	2.44	2.50	2.56	2.63
134	1.93	1.99	2.05	2.11	2.18	2.24	2.30	2.36	2.43	2.49	2.55
136	1.90	1.96	2.02	2.08	2.14	2.21	2.27	2.33	2.39	2.45	2.51
140	1.85	1.90	1.96	2.02	2.08	2.14	2.20	2.26	2.32	2.38	2.44
144	1.79	1.85	1.91	1.97	2.03	2.08	2.14	2.20	2.26	2.31	2.37
146	1.77	1.83	1.88	1.94	2.00	2.05	2.11	2.17	2.23	2.28	2.34
150	1.72	1.78	1.83	1.89	1.94	2.00	2.06	2.11	2.17	2.22	2.28
154	1.68	1.73	1.79	1.84	1.89	1.95	2.00	2.06	2.11	2.16	2.22
156	1.66	1.71	1.76	1.82	1.87	1.92	1.98	2.03	2.08	2.14	2.19
160	1.61	1.67	1.72	1.77	1.82	1.87	1.93	1.98	2.03	2.08	2.14
164	1.58	1.63	1.68	1.73	1.78	1.83	1.88	1.93	1.98	2.03	2.08
166	1.56	1.61	1.66	1.71	1.76	1.81	1.86	1.91	1.96	2.01	2.06
170	1.52	1.57	1.62	1.67	1.72	1.76	1.81	1.86	1.91	1.96	2.01
174	1.48	1.54	1.58	1.63	1.68	1.72	1.77	1.82	1.87	1.92	1.96
176	1.47	1.52	1.56	1.61	1.66	1.70	1.75	1.80	1.85	1.89	1.94
180	1.44	1.48	1.53	1.57	1.62	1.67	1.71	1.76	1.81	1.85	1.90

Average Yarn Sizes for Knitting Machines

Courtesy of the Textile World

The accompanying table gives the averages of yarn sizes used on machines with different needles per inch. Yarns coarser or finer can be used, of course, but this table will serve as a guide.

RIB MACHINES			Cylinder Needles per Inch	PLAIN MACHINES		
Woolen	Worsted	Cotton		Cotton	Worsted	Woolen
.75	2.25	1.5	3	.75	1.1	.40
1.25	3.75	2.5	4	1.5	2.25	.75
2.00	6.0	4.0	5	2.0	3.0	1.00
3.00	9.0	6.0	6	3.0	4.5	1.50
4.25	12.0	8.0	7	4.0	6.0	2.00
5.25	15.0	10.0	8	5.0	7.5	2.50
6.75	19.5	13.0	9	6.0	9.0	3.00
8.50	24.0	16.0	10	7.0	10.5	3.75
	30.0	20.0	11	8.0	12.0	4.25
	36.0	24.0	12	10.0	15.0	5.25
	42.0	28.0	13	12.0	18.0	6.25
	45.0	30.0	14	14.0	21.0	7.25
	50.0	33.0	15	16.0	24.0	8.50
	54.0	36.0	16	20.0	30.0	
	60.0	40.0	17	22.0	33.0	
			18	25.0	37.0	
			19	27.0	41.0	
			20	30.0	45.0	
			21	32.0	48.0	
			22	35.0	53.0	
			24	40.0	60.0	

Full Fashion { 39 gauge, 10 to 12 thread silk  
42 gauge, 8 to 10 thread silk

Reasonable Allowance for Stops

Courtesy of the Textile World

The following figures show a reasonable allowance for stoppage of different classes of knitting mill machinery. They indicate the average percentage of the running time lost under normal conditions.

	Per Cent
Winders . . . . .	5 to 25
Flat machines . . . . .	5 to 20
Small ribbers . . . . .	10
Large ribbers . . . . .	15
Loop wheel machines . . . . .	10
Automatics . . . . .	10

Table Showing Number of Slots in Cylinders of Different Cuts

Courtesy of the Textile World

[Needles per inch]

Size of Ala- chine	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	24	26	28
2	20	24	32	38	44	50	58	64	70	76	80	88	94	100	108	116	122	128	132	140	152	160	176
2 1/2	22	28	36	42	48	54	62	68	74	80	84	92	100	108	116	124	132	140	144	152	168	184	200
3	24	30	38	46	54	62	70	78	86	94	102	110	120	130	140	150	160	170	180	192	216	240	272
3 1/2	26	32	40	50	60	70	80	90	100	110	120	132	144	156	168	180	192	204	216	228	264	304	344
4	28	34	42	52	62	72	82	92	102	112	122	134	146	158	170	182	194	206	218	240	288	336	384
4 1/2	30	36	44	54	64	74	84	94	104	114	124	136	148	160	172	184	196	208	220	244	300	352	404
5	32	38	46	56	66	76	86	96	106	116	126	138	150	162	174	186	198	210	222	248	308	368	424
5 1/2	34	40	48	58	68	78	88	98	108	118	128	140	152	164	176	188	200	212	224	252	316	380	440
6	36	42	50	60	70	80	90	100	110	120	130	142	154	166	178	190	202	214	226	256	324	392	456
6 1/2	38	44	52	62	72	82	92	102	112	122	132	144	156	168	180	192	204	216	228	264	336	408	472
7	40	46	54	64	74	84	94	104	114	124	134	146	158	170	182	194	206	218	230	272	348	424	496
7 1/2	42	48	56	66	76	86	96	106	116	126	136	148	160	172	184	196	208	220	232	280	360	440	512
8	44	50	58	68	78	88	98	108	118	128	138	150	162	174	186	198	210	222	234	288	372	456	528
8 1/2	46	52	60	70	80	90	100	110	120	130	140	152	164	176	188	200	212	224	236	296	384	472	544
9	48	54	62	72	82	92	102	112	122	132	142	154	166	178	190	202	214	226	238	304	400	496	576
9 1/2	50	56	64	74	84	94	104	114	124	134	144	156	168	180	192	204	216	228	240	312	416	512	592
10	52	58	66	76	86	96	106	116	126	136	146	158	170	182	194	206	218	230	242	320	432	528	608
10 1/2	54	60	68	78	88	98	108	118	128	138	148	160	172	184	196	208	220	232	244	328	448	552	632
11	56	62	70	80	90	100	110	120	130	140	150	162	174	186	198	210	222	234	246	336	464	576	656
11 1/2	58	64	72	82	92	102	112	122	132	142	152	164	176	188	200	212	224	236	248	344	480	592	672
12	60	66	74	84	94	104	114	124	134	144	154	166	178	190	202	214	226	238	250	360	504	616	696
12 1/2	62	68	76	86	96	106	116	126	136	146	156	168	180	192	204	216	228	240	252	368	512	624	704
13	64	70	78	88	98	108	118	128	138	148	158	170	182	194	206	218	230	242	254	372	528	640	720
13 1/2	66	72	80	90	100	110	120	130	140	150	160	172	184	196	208	220	232	244	256	384	544	656	736
14	68	74	82	92	102	112	122	132	142	152	162	174	186	198	210	222	234	246	258	400	560	672	752
14 1/2	70	76	84	94	104	114	124	134	144	154	164	176	188	200	212	224	236	248	260	416	584	696	776
15	72	78	86	96	106	116	126	136	146	156	166	178	190	202	214	226	238	250	262	432	608	720	800
15 1/2	74	80	88	98	108	118	128	138	148	158	168	180	192	204	216	228	240	252	264	448	624	736	816
16	76	82	90	100	110	120	130	140	150	160	170	182	194	206	218	230	242	254	266	464	640	752	832
16 1/2	78	84	92	102	112	122	132	142	152	162	172	184	196	208	220	232	244	256	268	480	656	768	848
17	80	86	94	104	114	124	134	144	154	164	174	186	198	210	222	234	246	258	270	500	672	784	864
17 1/2	82	88	96	106	116	126	136	146	156	166	176	188	200	212	224	236	248	260	272	516	688	796	876
18	84	90	98	108	118	128	138	148	158	168	178	190	202	214	226	238	250	262	274	532	704	816	896
18 1/2	86	92	100	110	120	130	140	150	160	170	180	192	204	216	228	240	252	264	276	548	720	832	912
19	88	94	102	112	122	132	142	152	162	172	182	194	206	218	230	242	254	266	278	564	736	848	928
19 1/2	90	96	104	114	124	134	144	154	164	174	184	196	208	220	232	244	256	268	280	580	752	864	944
20	92	98	106	116	126	136	146	156	166	176	186	198	210	222	234	246	258	270	282	600	768	880	960
20 1/2	94	100	108	118	128	138	148	158	168	178	188	200	212	224	236	248	260	272	284	616	784	896	976
21	96	102	110	120	130	140	150	160	170	180	190	202	214	226	238	250	262	274	286	632	800	912	992
21 1/2	98	104	112	122	132	142	152	162	172	182	192	204	216	228	240	252	264	276	288	648	816	928	1008
22	100	106	114	124	134	144	154	164	174	184	194	206	218	230	242	254	266	278	290	664	832	944	1024
22 1/2	102	108	116	126	136	146	156	166	176	186	196	208	220	232	244	256	268	280	292	680	848	960	1040
23	104	110	118	128	138	148	158	168	178	188	198	210	222	234	246	258	270	282	294	700	864	976	1056
23 1/2	106	112	120	130	140	150	160	170	180	190	200	212	224	236	248	260	272	284	296	716	880	992	1072
24	108	114	122	132	142	152	162	172	182	192	202	214	226	238	250	262	274	286	298	732	896	1008	1088
24 1/2	110	116	124	134	144	154	164	174	184	194	204	216	228	240	252	264	276	288	300	748	912	1024	1104
25	112	118	126	136	146	156	166	176	186	196	206	218	230	242	254	266	278	290	302	764	928	1040	1120
25 1/2	114	120	128	138	148	158	168	178	188	198	208	220	232	244	256	268	280	292	304	780	944	1056	1136
26	116	122	130	140	150	160	170	180	190	200	210	222	234	246	258	270	282	294	306	800	960	1072	1152
26 1/2	118	124	132	142	152	162	172	182	192	202	212	224	236	248	260	272	284	296	308	816	976	1088	1168
27	120	126	134	144	154	164	174	184	194	204	214	226	238	250	262	274	286	298	310	832	992	1104	1184
27 1/2	122	128	136	146	156	166	176	186	196	206	216	228	240	252	264	276	288	300	312	848	1008	1120	1200
28	124	130	138	148	158	168	178	188	198	208	218	230	242	254	266	278	290	302	314	864	1024	1136	1216
28 1/2	126	132	140	150	160	170	180	190	200	210	220	232	244	256	268	280	292	304	316	880	1040	1152	1232
29	128	134	142	152	162	172	182	192	202	212	222	234	246	258	270	282	294	306	318	900	1056	1168	1248
29 1/2	130	136	144	154	164	174	184	194	204	214	224	236	248	260	272	284	296	308	320	916	1072	1184	1264
30	132	138	146	156	166	176	186	196	206	216	226	238	250	262	274	286	298	310	322	932	1088	1200	1280
30 1/2	134	140	148	158	168	178	188	198	208	218	228	240	252	264	276	288	300	312	324	948	1104	1216	1296
31	136	142	150	160	170	180	190	200	210	220	230	242	254	266	278	290	302	314	326	964	1120	1232	1312
31 1/2	138	144	152	162	172	182	192	202	212	222	232	244	256	268	280	292	304	316	328	980	1136	1248	1328
32	140	146	154	164	174	184	194	204	214	224	234	246	258	270	282	294	306	318	330	1000	1152	1264	1344
32 1/2	142	148	156																				

## Latch Needle Gauge and Needles Per Inch

Courtesy of the Textile World

The common gauges of latch needles are listed here with the number of needles per inch in the cylinder of the machines to correspond with them.

NEEDLE GAUGE	NEEDLES PER INCH	
	Ribbers	Automatics
2 . . . . .	1-2	-
4 . . . . .	2-3	-
8 . . . . .	3-4	-
12 . . . . .	3-5	5 - 8.4
18 . . . . .	4-7	8.4-10.1
24 . . . . .	6-9	10.3-11.6
36 . . . . .	8-13	11.6-14.9
48 . . . . .	10-15	15.0-18.6
54 . . . . .	-	18.3-20.3
60 . . . . .	16 and up	-

## Production of Cotton Rib Underwear

Compiled by Gilbert R. Merrill

[Per 9 hours, no stops, 1 foot yarn for 4 inches of needles]

Cut	Yarn Size	Production per Feed [In Pounds]
4 . . . . .	2 $\frac{1}{3}$	50.0
5 . . . . .	4	29.0
6 . . . . .	6	20.0
7 . . . . .	8	15.0
8 . . . . .	10	12.0
9 . . . . .	13	9.1
10 . . . . .	16	7.4
11 . . . . .	20	5.9
12 . . . . .	24	4.9
13 . . . . .	28	4.2
14 . . . . .	34	3.5

## Average Underwear Production

Compiled by Gilbert R. Merrill

[Dozen garments per 10 hours]

OPERATION	Union Suits	Shirts	Drawers	Usual Operative
Knit (6 to 10 machines):				
Webbing . . . . .	36-60	60-90	42-90	Man
Cuffs . . . . .	300-325	300-325	300-325	Man
Collarettes . . . . .	500-600	500-600	-	Man
Nap (3 machines) . . . . .	180	420	300	Man
Cut:				
Hand . . . . .	40	100	100	Man
Machine . . . . .	200	375	375	Man
Examine and dozen . . . . .	300	300	300	Woman
Cuff . . . . .	50	100	100	Woman
Welt . . . . .	-	75	-	Woman
Seam . . . . .	11-18	35-45	25-45	Woman
Cover seam . . . . .	20-25	40-75	40-60	Woman
Layout and mark neck . . . . .	125-150	150-200	-	Woman
Neck . . . . .	140-150	175-200	-	Woman
Neck cut . . . . .	125-160	150-200	-	Woman
Face . . . . .	50-75	120-160	-	Woman
Button stay . . . . .	60-75	140-185	-	Woman
Collarette . . . . .	40-80	40-80	-	Woman
Overedge . . . . .	60-125	100-200	-	Woman
Tack and bind . . . . .	50-75	50-100	-	Woman
Trim . . . . .	-	-	150-175	Woman
Double seat . . . . .	50	-	65-75	Woman
Finish . . . . .	-	-	18-22	Woman
Strap . . . . .	-	-	90-100	Woman
Eyelet:				
Punched . . . . .	-	-	300-320	Woman
Worked . . . . .	-	-	550-600	Woman
Buttonholes . . . . .	50 (8 button)	100 (4 button)	150 (3 button)	Woman
Mark buttons . . . . .	100 (8 button)	200 (4 button)	250 (3 button)	Woman
Sew buttons . . . . .	60 (8 button)	125 (4 button)	140 (3 button)	Woman
Examine . . . . .	25-30	50-85	45-60	Woman
Mend garments . . . . .	150-200	150-200	150-200	Woman
Label . . . . .	80	80	80	Woman
Press . . . . .	45-80	70-140	80-150	Man
Fold . . . . .	45-60	90	100	Woman
Box . . . . .	150	300-350	300-400	Woman

Above figures are for plant having a capacity of 800 dozen per day, with 7 to 8 per cent seconds.

Order of inspection: first, for heavy or light ends, dust marks, discolored buttons, crooked or strained seams; second, for seams, buttons and buttonholes, neck, leg, and sleeve finish.

## Maximum Limits of Humidity at Given Temperatures when Artificial Humidification is employed

General Laws, chapter 149, section 110, Commonwealth of Massachusetts

I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity	I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity
60	58	88	78	73.5	77
61	59	88	79	74.5	77.5
62	60	88	80	75.5	77.5
63	61	88	81	76	76
64	62	88	82	76.5	74
65	63	88	83	77.5	74
66	64	88	84	78	72
67	65	88	85	79	72
68	66	88	86	80	72
69	67	88	87	80.5	71
70	68	88	88	81.5	71
71	68.5	85.5	89	82.5	71
72	69	84	90	83	69
73	70	84	91	83.5	68
74	70.5	81.5	92	84.5	68
75	71.5	81.5	93	85.5	68
76	72	79	94	86	68
77	73	79	95	87	66

## Grades and Colors of the Universal Standards for American Upland Cotton

United States Department of Agriculture Circular 278

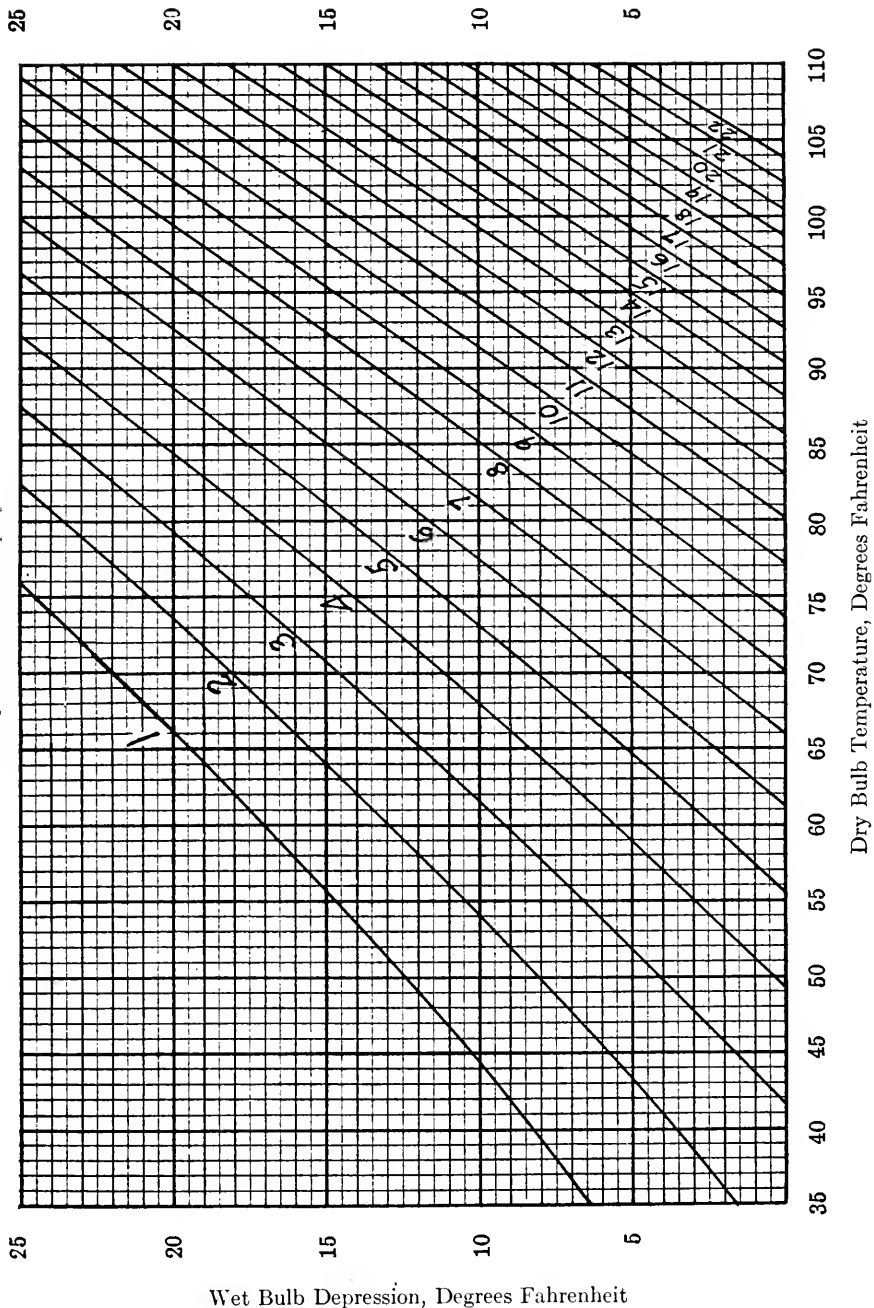
Blue-stained	Gray	Standards for Grades of Upland Cotton, White	Spotted	Yellow-tinged	Light-stained	Yellow-stained
		1 or midling fair				
		2 or strict good midling		2 T.		
<b>3 B.</b>	<i>3 G.</i>	3 or good midling	<i>3 Sp.</i>	<b>3 T.</b>	<i>3 L. S.</i>	<b>3 S.</b>
<b>4 B.</b>	<i>4 G.</i>	4 or strict midling	<i>4 Sp.</i>	<b>4 T.</b>	<i>4 L. S.</i>	<b>4 S.</b>
<b>5 B.</b>	<i>5 G.</i>	5 or midling	<i>5 Sp.</i>	<b>5 T.</b>	<i>5 L. S.</i>	<b>5 S.</b>
		6 or strict low midling	<i>6 Sp.</i>	<b>6 T.</b>		
		7 or low midling	<i>7 Sp.</i>	<b>7 T.</b>		
		8 or strict good ordinary				
		9 or good ordinary				

Symbols in heavy type denote grades and colors for which practical forms of the official cotton standards are prepared. Symbols in italics represent the designations of cotton which in color is between practical forms.

The grades shown above the black lines are deliverable on future contracts made in accordance with section 5 of the United States Cotton Futures Act. Those below the line are untenderable on such contracts.

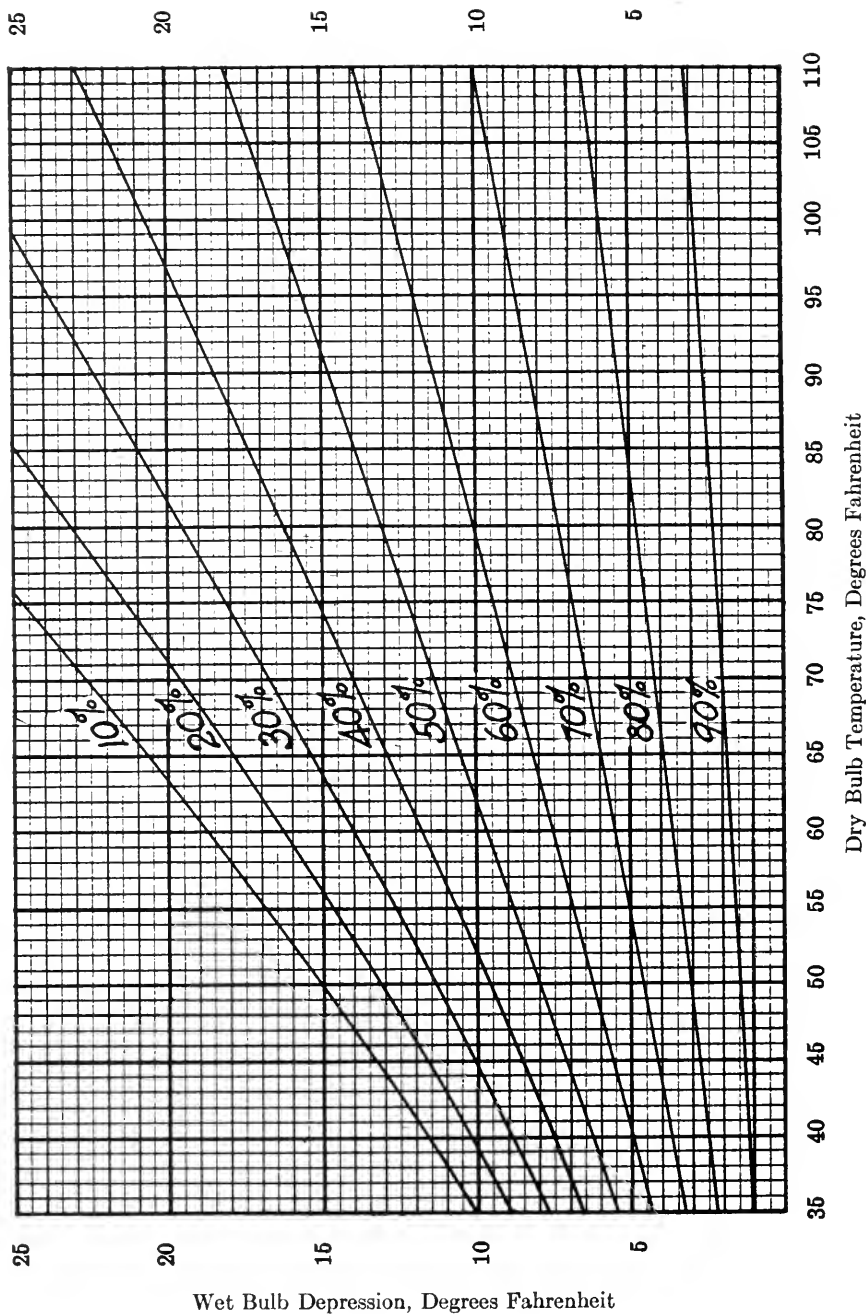


**Absolute Humidity**  
Grains of moisture per cubic foot  
Courtesy Parks-Cramer Company



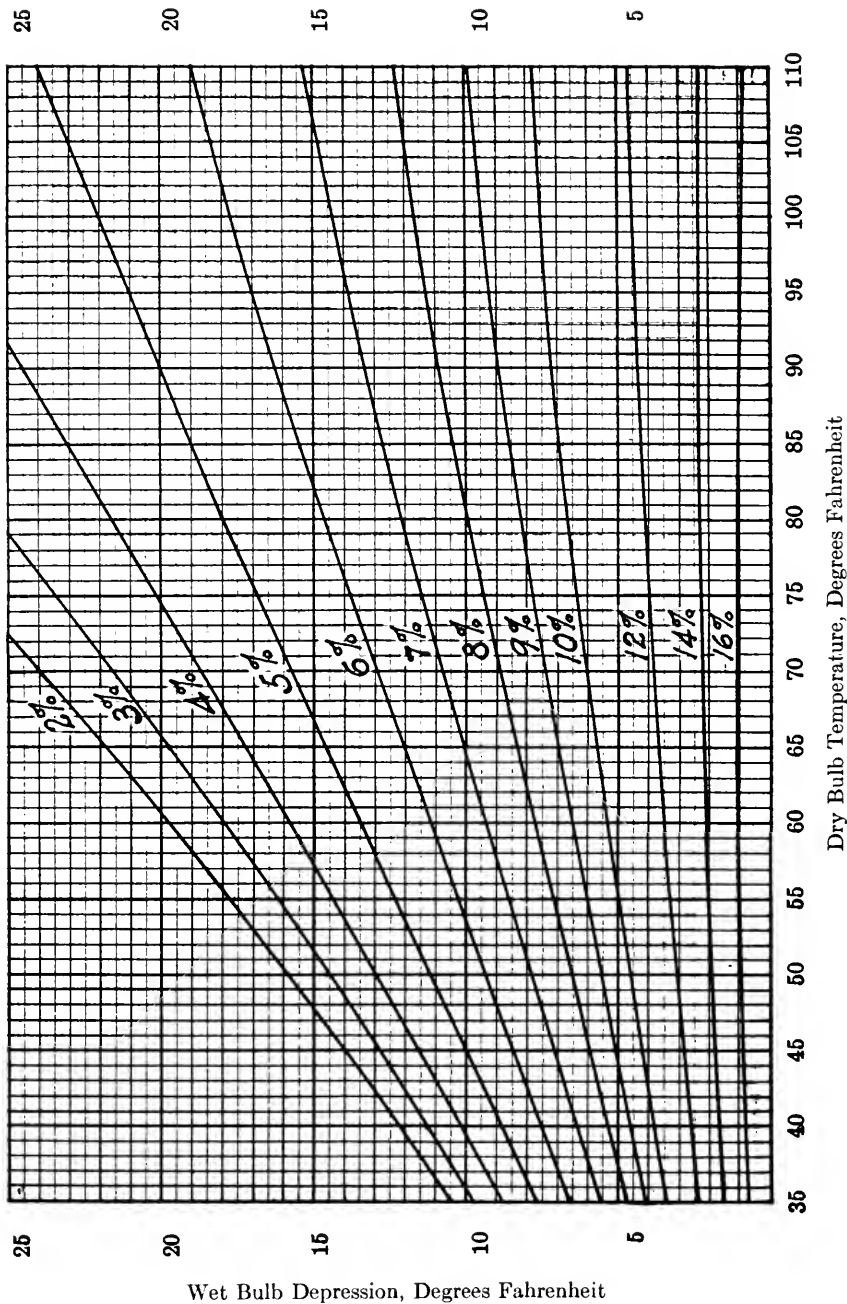
## Relative Humidity

Courtesy Parks-Cramer Company



**Cotton Regain**

Theoretical Regain for Raw Cotton  
 Courtesy Parks-Cramer Company



Dry Bulb Temperature, Degrees Fahrenheit

# Psychrometric Humidity Table for Use with Sling Psychrometer only

Courtesy Parks-Cramer Company

TEMP OF DRY BULB	Relative Humidities—Large Figures											Actual Humidities—Small Figures															
	F°	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°	
60	100	94	89	83	78	73	68	63	58	53	48	43	39	34	30	26	21	17	13	9	5	1					
61	100	94	89	84	78	73	68	63	58	54	49	44	40	35	31	27	22	18	14	10	7	3					
62	100	95	89	84	79	74	69	64	59	54	50	45	41	36	32	28	24	20	16	12	8	4					
63	100	95	89	84	79	74	69	64	60	55	50	46	42	37	33	29	25	21	17	13	10	6	2				
64	100	95	90	84	79	74	70	65	60	56	51	47	43	38	34	30	26	22	18	15	11	7	4				
65	100	95	90	85	80	75	70	66	61	56	52	48	44	39	35	31	27	24	20	16	12	9	5	2			
66	100	95	90	85	80	75	71	66	61	57	53	48	44	40	36	32	29	25	21	17	14	10	7	3			
67	100	95	90	85	80	75	71	66	62	58	53	49	45	41	37	33	30	26	22	19	15	12	8	5	2		
68	100	95	90	85	80	76	71	67	62	58	54	50	46	42	38	34	31	27	23	20	16	13	10	6	3		
69	100	95	90	85	81	76	72	67	63	59	55	51	47	43	39	35	32	28	24	21	18	14	11	8	5		
70	100	95	90	86	81	77	72	68	64	60	55	51	48	44	40	36	33	29	25	22	19	15	12	9	6		
71	100	95	90	86	81	77	72	68	64	60	56	52	48	45	41	37	33	30	27	23	20	17	13	10	7		
72	100	95	91	86	82	77	73	69	65	61	57	53	49	45	42	38	34	31	28	24	21	18	15	12	9		
73	100	95	91	86	82	78	73	69	65	61	57	53	50	46	42	39	35	32	29	25	22	19	16	13	10		
74	100	95	91	86	82	78	74	69	65	61	58	54	50	47	43	39	36	33	29	26	23	20	17	14	11		
75	100	96	91	86	82	78	74	70	66	62	58	54	51	47	44	40	37	34	31	27	24	21	18	15	12		
76	100	96	91	87	82	78	74	70	66	62	59	55	51	48	44	41	38	34	31	28	25	22	19	16	13		
77	100	96	91	87	83	79	74	71	67	63	59	56	52	48	45	42	39	35	32	29	26	23	20	17	14		
78	100	96	91	87	83	79	75	71	67	63	60	56	53	49	46	43	39	36	33	30	27	24	21	18	15		
79	100	96	91	87	83	79	75	71	68	64	60	57	53	50	46	43	40	37	34	31	28	25	22	19	17		
80	100	96	91	87	83	79	75	72	68	64	61	57	54	50	47	44	41	38	35	32	29	26	23	20	18		
81	100	96	92	88	84	80	76	72	68	65	61	58	55	51	48	45	42	39	36	33	30	27	24	21	19		
82	100	96	92	88	84	80	76	72	68	65	61	58	55	51	48	45	42	39	36	33	30	28	25	22	20		
83	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	34	31	28	25	23	20		
84	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	35	32	29	26	24	21		
85	100	96	92	88	84	80	77	73	69	66	63	60	57	53	50	47	44	41	38	36	33	30	27	25	22		
86	100	96	92	88	84	81	77	73	70	66	63	60	57	53	50	47	44	42	39	36	33	31	28	26	23		
87	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	45	43	40	37	34	32	29	27	24		
88	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	45	43	40	37	35	32	30	27	25		
89	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	45	43	40	37	35	33	30	28	25		
90	100	96	92	89	85	81	78	74	71	68	65	61	58	55	52	49	47	44	41	39	36	34	31	29	26		
91	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	33	30	27		
92	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	33	30	28		
93	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	33	31	29		
94	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	33	31	29		
95	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	33	31	29		
96	100	96	93	89	86	82	79	76	73	69	66	63	61	58	55	52	50	47	44	42	39	37	35	32	30		
97	100	96	93	89	86	82	79	76	73	69	66	63	61	58	55	52	50	47	44	42	39	37	35	33	31		
98	100	96	93	89	86	83	79	76	73	70	67	64	61	58	55	53	50	48	45	43	40	38	36	34	32		
99	100	96	93	89	86	83	80	77	73	70	68	65	62	59	56	54	51	49	46	44	41	39	37	35	33		
RELATIVE HUMIDITIES IN PERCENTAGES (40°) ACTUAL HUMIDITIES IN GRAMS OF MOISTURE PER CUBIC FOOT OF AIR																											

Percent cotton regain

11

10

9

8

7

6

5

## United States Government General Specification for Textile Materials (Methods of Physical and Chemical Tests)

Circular of the Bureau of Standards, No. 293

### I. ATMOSPHERIC CONDITIONS

Physical tests may be made under prevailing atmospheric conditions except in the settlement of disputes where moisture is an influencing factor in tests for breaking strength, thread count, weight, width, length, etc. Such tests shall then be made upon material having normal moisture content, obtained by exposure for at least four hours to an atmospheric condition of 65 per cent relative humidity at 70° F.

The effect of humidity is a decided variable in these tests, depending on the construction, finishing, sizing, etc. In general, a high relative humidity will increase all weight results, and in breaking-strength results will show an increase for vegetable fibers and a decrease for animal fibers. The manufacturer should note the humidity on a sling psychrometer at the time tests are made to establish whether his material conforms to these specifications and take into consideration the above facts.

### II. FIBER IDENTIFICATION AND QUANTITATIVE DETERMINATIONS

1. COTTON. — In specifications calling for cotton fibers no further test is needed than the visual examination of the fibers as pulled from the specimen.

2. WOOL. — In specifications calling for all-wool fibers chemical tests shall be made to dissolve all of the wool fibers, leaving the impurities and vegetable fibers as indications of any variations from the all-wool requirements. Place the specimen of about 5 grams in a beaker or vessel containing at least 100 times its weight of 5 per cent solution of sodium or potassium hydroxide and boil slowly until the wool fibers become gelatinous and dissolve. If, after 10 minutes of boiling, there appear to be present any loose fibers or yarns when stirring with a glass rod, the contents shall be filtered through a fine-mesh wire cloth and the residue washed with warm water. Allow the residue to dry in air, then examine it for its nature and amount. The presence of fibers and of foreign matter in excess of 1 per cent in weight shall be cause for rejection.

3. WOOL AND COTTON MIXTURES. — In specifications calling for wool and cotton mixtures chemical tests shall be made according to the following classification:

(a) With a cotton warp and with no limit as to the proportion of cotton allowed, based on the weight of the material as a whole, the filling shall be separated from the material until a weight of about 5 grams is obtained. The test shall be given as for wool (II, 2).

(b) With a cotton warp and with a limit as to the proportion of cotton allowed, a specimen of about 5 grams shall be weighed and placed in a beaker or vessel containing at least 100 times its weight of 5 per cent solution of sodium or potassium hydroxide and boiled slowly until the wool fibers become gelatinous and dissolve. After a period of 10 minutes of boiling filter residue through a fine-mesh wire cloth and wash residue with warm water, then dry in air and weigh. The per cent of cotton present shall be calculated by adding 5 per cent of the residue dry weight, as expressed:

$$\frac{\text{Residue weight}}{95} \times 100 = \text{weight of cotton}$$

$$\frac{\text{Weight of cotton}}{\text{Original weight of specimen}} \times 100 = \text{per cent of cotton.}$$

(c) With no mention of where the cotton is to be found and with a limit as to the proportion of cotton allowed, the test shall be carried out as in (b).

4. UMPIRE METHOD FOR WOOL AND FOR WOOL AND COTTON MIXTURES. — In the event of a dispute, the following procedure shall be used: All weighings shall be made after the specimen has been conditioned at 65 per cent relative humidity and 70° F. Weighings shall be made to the nearest milligram or equivalent accuracy. Boil at least a 5 gram specimen in at least 100 times its weight of a 5 per cent solution of sodium or potassium hydroxide contained in an assay flask fitted with a reflux condenser for a period of one hour. Filter the residue on a fine-mesh wire cloth, wash first with warm water, then with a solution of 3 per cent acetic acid, and finally with hot water.

The per cent of cotton present shall be calculated by adding 5 per cent to the residue dry weight, as expressed:

$$\frac{\text{Residue weight}}{95} \times 100 = \text{weight of cotton}$$

$$\frac{\text{Weight of cotton}}{\text{Original weight of specimen}} \times 100 = \text{per cent of cotton.}$$

### III. BREAKING STRENGTH, GRAB METHOD (1 x 1 x 3 inches)

Six test specimens 6 inches long by 4 inches wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively, as shown in Fig. 1. Care shall be taken that no two test specimens include the same threads, except for retest as specified below. No specimen for testing should be taken at less than 8 inches from either selvage.

The machine used shall be of the inclination balance type, as shown in Fig. 1. The maximum capacity of the machine shall be such that no break shall occur beyond the limits as shown in Fig. 1. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be 3 inches at start of test. (See Fig. 1.) The inside or back half of each jaw shall be 2 inches or more in width; the other half shall be 1 inch in width. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the test of each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation, the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

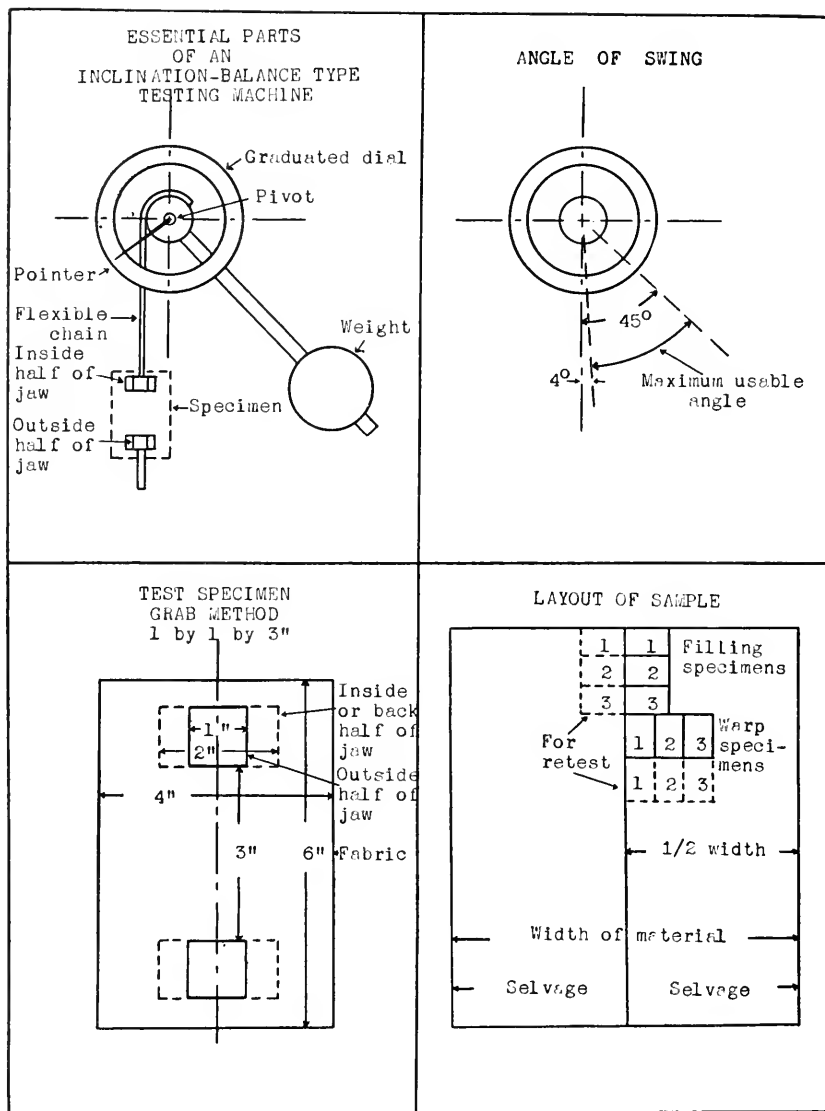


FIG. 1



## IV. BREAKING STRENGTH, STRIP METHOD

Six test specimens approximately " $x$ " inches (see Table A, Fig. 2) long by " $z$ " inches (see Table A, Fig. 2) wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively, as shown in Fig. 2.

Each specimen shall be raveled to exactly 1 inch by taking from each side approximately the same number of threads. (See Fig. 2.) Care shall be taken that no two test specimens include the same threads, except for retest, as specified below. No specimen for testing should be taken at less than 8 inches from either selvage.

The machine used shall be of the inclination balance type, as shown in Fig. 2. The maximum capacity of the machine shall be such that no break shall occur beyond the limits, as shown in Fig. 2. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be " $y$ " inches (see Table A) at the start of test. The width of the jaws shall be  $1\frac{1}{2}$  inches or more. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the tests in each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

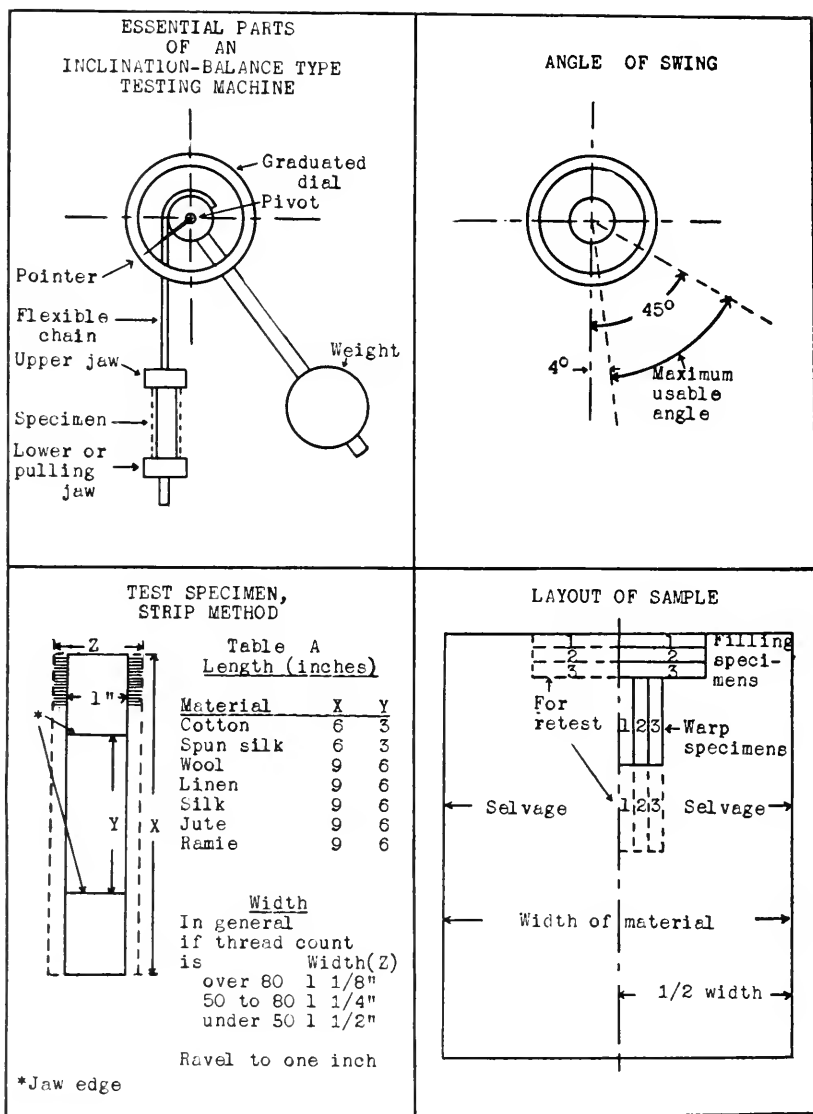


FIG. 2

## V. WEIGHT PER SQUARE YARD

The weight per square yard may be determined by any one of the following three methods. In case of dispute, method No. 1 shall be used as an umpire method.

METHOD NO. 1. — Take 1 yard of the sample. Weigh, and if the width is not 1 yard calculate the weight per square yard.

$$\frac{\text{Weight of linear yard}}{\text{Width}} \times 36 = \text{weight per square yard.}$$

Average, 2 tests.

METHOD NO. 2. — Take a measured portion of the material and weigh. Calculate from this area the weight per square yard.

$$\frac{1,296 \times \text{weight of known area}}{\text{Area in inches}} = \text{weight per square yard.}$$

Average, 3 tests.

METHOD NO. 3. — Cut from the sample a specimen 2 by 2 inches, using a steel die. No specimen for testing shall be taken less than 8 inches from either selvage. Weigh on a balance adjusted to read the weight of the material in ounces per square yard.

Average, 3 to 5 tests.

## VI. WEIGHT PER LINEAR YARD

The weight per linear yard shall be computed from the weight per square yard, as follows:

$$\frac{\text{Weight per square yard} \times \text{width}}{36} = \text{weight per linear yard.}$$

## VII. THREAD COUNT

The actual number of threads in 1 inch of width shall be counted in each direction at three different places in the cloth and the results averaged for each direction. Where the thread count is under 25, the actual number of threads in 3 inches shall be counted for each direction at three different places in the cloth and the results reduced to threads per inch and averaged for each direction. When the size of the sample permits, these counts shall be taken about 6 inches apart. No warp reading should be taken at less than 8 inches from the selvage.

## VIII. WIDTH

The width shall be determined by laying the material on a flat surface without tension, then measuring the distance perpendicular to the length from edge to edge to an accuracy of one-sixteenth inch. Three measurements shall be taken at different places in the sample and the results averaged.

## Yarn Test Methods

Extracts from American Society for Testing Materials Test Methods<sup>1</sup>

### BREAKING STRENGTH

Two test methods are given, — the skein test and the single strand test. A preferred and alternative method for each test is given. The alternative method can be used where routine testing is done on a large scale. The preferred method should always be used in case of dispute.

**SKED TEST (PREFERRED METHOD).** — A standard skein (120-yard) shall be broken after conditioning of tubes or bobbins selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). An automatic power yarn tester of inclination balance type, the maximum capacity of which shall be determined in accordance with a table of machine specifications, shall be used. The speed of the pulling jaw shall be 12 inches per minute. Any yarn reel having a 1½-yard perimeter may be used in preparing the skeins. For filling-wound yarns or yarns on cones, where the yarn is drawn from the top, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, where the yarn is drawn from the side, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guide on to the reel, the angles of the guides supplying the necessary tension. Judgment must be used in regard to the amount of tension required on yarns having little or a large amount of twist. Three tests from each of four bobbins from every case of yarn shall be made.

**SINGLE STRAND TEST (PREFERRED METHOD).** — Single strands shall be broken after conditioning the tubes or bobbins for twelve hours in an atmosphere of 65 per cent relative humidity, 70° F. (21° C.). A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 bobbins shall be the average strength.

**PLIED YARNS (PREFERRED METHOD).** — Plied yarns, except standard tire cord, shall be subjected to the single strand break after conditioning for twelve hours on spools or tubes selected for test, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Standard tire

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<sup>1</sup> For complete Methods of Testing and Tolerances, see American Society for Testing Materials Book of Standards.

cord shall be tested under dry conditions in accordance with the Standard General Methods of Testing Woven Textile Fabrics (Serial Designation D 39) of the American Society for Testing Materials.<sup>1</sup> A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 spools or tubes shall be reported as the average strength.

ALTERNATE METHOD. — Skeins of single strands of yarn, either single or plied, prepared in accordance with previous paragraphs, shall be broken under natural humidity conditions at time of test. The results thus obtained shall be reduced to a common basis of standard moisture regain equal to 7 per cent of the bone-dry weight.

MOISTURE REGAIN DETERMINATION. — To determine moisture regain present in samples, the several skeins shall be weighed collectively, immediately after testing, under natural moisture conditions which obtain at the time of test. The skeins shall then be placed in the basket of an oven at a temperature of 105 to 110° C. (221 to 230° F.) and dried to constant weight. The moisture regain is then computed as the percentage of the dry weight.

CORRECTION TO STANDARD REGAIN. — (a) The following formula shall then be applied, based on the assumption that the standard moisture regain of cotton yarns is 7 per cent of the dry weight; that the actual percentage regain is between the limits of 3 and 7 per cent of the dry weight; and that for 1 per cent of moisture regain there is an increase of 6 per cent in the tensile strength of the yarn.

$$\text{Tensile strength corrected to standard moisture regain} = \frac{(\text{Tensile strength from machine reading}) \times 142}{100 + (6 \times \text{actual percentage regain})}$$

(b) Moisture regain tests shall be made periodically during the hours of testing as the natural humidity conditions are found to vary.

STRENGTH CORRECTION TO SIZE. — The average tensile strength shall be corrected to the specified size as determined in accordance with the following paragraphs, by the following formula:

$$\text{Corrected tensile strength} = \text{Actual average strength} \times \frac{\text{Actual average size}}{\text{Specified size}}$$

#### SIZE OR YARN NUMBER

SIZE OF SINGLE YARNS (PREFERRED METHOD). — The size of all standard skeins used in the skein strength test shall be determined im-

<sup>1</sup> American Society for Testing Materials, 1927 Book of Standards.

mediately after being broken. In case the single strand test is made, the standard skein shall be prepared for the size determination at the time of the break, and the size determined immediately. The balance to be used in this test shall be accurate to 0.25 per cent of the standard size of the yarn. When the balance does not indicate the size directly, the yarn number or size may be calculated from the formula:

$$\text{Yarn number or size} = \frac{\text{Length in yards of single yarn}}{\text{Weight in grains}} \times \frac{7000 \text{ (grains in 1 pound)}}{840 \text{ (yards of No. 1 cotton yarn per pound)}}$$

SIZE OF PLIED YARNS (PREFERRED METHOD). — In determining the size of plied yarns, the skein shall be prepared in accordance with Table I, and the size shall be determined after conditioning of tubes or spools selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Any yarn reel having a 1½-yard perimeter may be used in preparing the skeins. For filling-wound yarns or yarn on cones, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guides on to the reel, the angles of the guides supplying the necessary tension.

TABLE I

EQUIVALENT SINGLES SIZE	Yards for Size	Conversion Formula	Number of Tests Per Case of Yarn
20's and above . . . .	60	$\frac{\text{Size}}{2} = \text{ply size}$	3 from each of 4 spools or tubes
3's to 20's . . . . .	24	$\frac{\text{Size}}{5} = \text{ply size}$	3 from each of 4 spools or tubes
Below 3's . . . . .	12	$\frac{\text{Size}}{10} = \text{ply size}$	3 from each of 4 spools or tubes

SIZE OF ALL YARNS (ALTERNATE METHOD). — All yarns used in the alternate method of testing for strength shall be sized under natural humidity conditions at the time of test. Plied yarns shall be prepared in skeins in accordance with Table I. The moisture regain shall then be determined and results corrected to a common basis of standard

moisture regain equal to 7 per cent of the bone-dry weight by means of the formula:

$$\text{Size corrected to standard moisture regain} = \frac{\text{Size} \times (100 + \text{actual percentage regain})}{107}.$$

The average of these tests shall be the average size of case, bale, ball chain or beam warp of yarn.

### TWIST

**TWIST OF SINGLE YARNS.** — No precision method of determining the twist of single yarns has been developed.

**TWIST OF PLIED YARNS.** — The ply twist in yarns of two or more ply shall be determined on any standard twist counter with jaws set 10 inches apart. The strands shall be clamped in jaws under a definite tension by attaching weights. The tension to be used shall be determined from the formula:

$$\text{Tension, in grams} = \frac{156 \text{ (Constant)}}{\text{Equivalent singles size}}.$$

The constant of 156 represents a tension which should be placed on yarn or cord to hold it sufficiently taut and still not remove any stretch.

**NUMBER OF TESTS.** — Three twist tests on each of four packages of yarn from each case shall be made, and the average of these twelve tests shall be the average of the case.

## Fastness Tests for Dyed or Printed Cotton

Recommended by the American Association of Textile Chemists and Colorists

### FASTNESS TO DOMESTIC WASHING, LAUNDERING AND SOAPING

- Test 1 — Fastness to severe washing.  
 Test 2 — Fastness to power laundering.  
 Test 3 — Fastness to mild washing.  
 Test 4 — Fastness to very mild washing.

### METHOD OF TEST

Immerse the material, braided with an equal weight of white cotton or sewed on to a piece of white cotton cloth, in a solution of soap and soda of temperature and concentration as indicated below. Treat for thirty minutes; then lift, run through squeeze rolls and rinse well in water at 100° F. till soap and alkali are removed; then dry by hanging in air or dry closet. The soap to be used should be a good grade of 88 per cent chip tallow soap, and the soda ash the standard 58 per cent commercial product. The volume of liquor should be fifty times the weight of the goods. In Test 2, after a preliminary rinse to remove soap, the goods should be treated for ten minutes at 105° F. in 1/20 per cent acetic acid solution, then rinsed again and dried.

#### *Temperature and Concentration*

TEST NO.	Temperature (Degree)	Soap (Per Cent)	Soda (Per Cent)
1	212	5/10	2/10
2	160	1/10	1/10
3	120	1/10	None
4	90	1/10	None

### CLASSIFICATION

*Class 1. Excellent.* — This test applies to dyed or printed cotton that is to be subjected to the severest form of washing. Colors that stand Test 1 (without appreciable change and without staining white cotton) can be guaranteed fast to washing.

*Class 2. Very Good.* — This test applies to dyed or printed cotton that is to be washed by power laundries and which should stand treatment as prescribed by the Laundry Owners' National Association. Colors that stand Test 2 can be considered fast to laundering.

*Class 3. Good; Commercially Fast.* — This test applies to dyed or printed cotton that does not stand Test 1 or 2, but that does possess moderate fastness if washed carefully at a low temperature. It is intended to meet the requirements of a careful home washing. Colors that stand this test can be considered commercially fast.

*Class 4. Fair.* — This test applies to dyed or printed cotton that does not stand Test 3 but that does nevertheless possess some degree of



fastness. Colors that stand this test only cannot be washed with satisfactory results except by the most careful treatment.

*Class 5. Poor; no Fastness to Washing.* — This class includes all colors that fail to pass any of the above four tests.

### Determination of Sizing

Bureau of Standards Method

1. Heat weighing bottle and lid for a half hour at 100° to 105° C. Place in desiccator until cool, then weigh. *Weight (a).* (Make this and all other weights herein to the nearest milligram.)

2. Place a specimen of from 3 to 10 grams in the weighing bottle (lid on) and weigh (to nearest milligram). *Weight (b).*

3. Place in a drying oven maintained at 104° to 106° C. Remove lid of weighing bottle. Dry for five hours.<sup>1</sup>

4. Replace lid, place bottle containing specimen in desiccator and allow to cool for at least an hour, then weigh. *Weight (c).*

5. Repeat 3 except that it shall be dried for one hour instead of five. Repeat 4, obtaining *weight (d).*

6. If weights (c) and (d) are not within 2 milligrams agreement, repeat 5 until successive weighings are in agreement. Final is *weight (d<sub>1</sub>).*

For cotton materials:

7. Treat in a hot 1 per cent sodium hydroxide solution for one hour. Rinse thoroughly in distilled water.

8. Treat in a hot 1 per cent solution of hydrochloric acid for one hour. Rinse thoroughly in distilled water.

9. Repeat steps 1 to 6, obtaining *weight (d<sub>2</sub>).*

10. Calculations:

$$\frac{d_1 - d_2}{d_1} \times 100 = \text{per cent of sizing.}$$

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<sup>1</sup> The loss caused by additional heating after five hours has been shown to be less than 0.01 to 0.02 per cent moisture.

## Analysis of Cloth for Tariff Purposes

Treasury Decisions 33823 and 34255

Under the provisions of paragraph 253 the rates of duty are to be ascertained according to the average number of the yarns in the condition in which imported. The length of the yarn is to be counted as equal to the distance covered by it in the cloth, all clipped threads to be measured as if continuous, and all ply yarns to be separated into singles and the count taken of the total singles; any excessive sizing to be removed by boiling or other suitable process. The number of the yarn is the English number of 840 yards to a pound for a No. 1 yarn.

The average number of the yarn may be found without unraveling the fabric, and is the quotient of the division of the total thread length by the weight in the proportion of 840 yards of yarn equaling 1 pound of 7,000 grains or 1 yard of yarn equaling  $8\frac{1}{3}$  grains, which is equivalent to a No. 1 yarn.

The following simple formula may be used: Multiply the count of threads per square inch by the number of square inches in the sample used, this product to be multiplied by 100; then divide the product thus obtained by the weight of the sample in grains multiplied by 432. The quotient will give the number of the yarn. For example, take a sample of cotton cloth 4 inches square, which equals 16 square inches, having 28 warp and 28 woof threads, a total of 56 threads to the square inch, and weighing 8.6 grains. The formula applied would be as follows:

$$\frac{56 \times 16 \times 100}{8.6 \times 432} = 24, \text{ the number of the yarn.}$$

The formula may be further simplified by weighing a square yard of said cloth and dividing the number of threads per square inch by  $1/300$  of the weight of a square yard in grains.

Samples of all cotton cloth should be forwarded to the United States appraiser at New York on the C. V. R. cards, under the provisions of T. D. 31936. When a square yard or more is available for test the following formula may be used:

$$\frac{\text{Number of threads per square inch} \times 24}{\text{Number of ounces per square yard} \times 35} = \text{Average number of yarn.}$$

An addition of  $8\frac{1}{2}$  per cent to be made to bone-dry weight in ascertaining the number of the yarn in cotton cloth.

# Breaking Strength of American Yarns spun from American Cotton

By George Draper

120 Yards Weight (Grains)	Number of Yarn	OLD	NEW			120 Yards Weight (Grains)	Number of Yarn	OLD	NEW
		Breaking Weight of Warp Yarn	Breaking Weight of Warp Yarn	Breaking Weight Combed Warp	Breaking Weight Soft Twist Yarn			Breaking Weight of Warp Yarn	Breaking Weight of Combed Warp
1,000	1	—	—	—	—	19.6	51	36.6	47—
500	2	—	—	—	—	19.2	52	36.1	46
333.3	3	530	634+	863—	620+	18.9	53	35.5	45+
250	4	410	476—	646	462	18.5	54	34.9	44+
200	5	330	381	516	367	18.2	55	34.4	43+
166.7	6	275	318—	429+	304—	17.9	56	33.8	42+
142.9	7	237.6	272+	367+	258+	17.5	57	33.4	42—
125	8	209	238+	321	224+	17.2	58	32.8	41—
111.1	9	186.5	212+	285—	198+	17	59	32.3	40+
100	10	168.7	191	256	177	16.7	60	31.7	39+
90.9	11	154.1	174—	232+	160—	16.4	61	31.3	39—
83.3	12	142	159+	213—	145+	16.1	62	30.8	38—
76.9	13	131.5	147+	196	133+	15.9	63	30.4	37+
71.4	14	122.8	137—	182—	123—	15.6	64	30	37—
66.7	15	115.1	128—	169+	114—	15.4	65	29.6	36
62.5	16	108.4	120—	158+	106—	15.2	66	29.2	35+
58.8	17	102.5	113—	149—	99—	14.9	67	28.8	35—
55.6	18	97.3	107—	140+	93—	14.7	68	28.5	34+
52.6	19	92.6	101	133—	87	14.5	69	28.2	34—
50	20	88.3	96	126	82	14.3	70	27.8	33+
47.6	21	83.8	91+	120—	77+	14.1	71	27.4	33—
45.5	22	79.7	87+	114+	73+	13.9	72	27.1	32+
43.5	23	75.9	84—	109+	70—	13.7	73	26.8	32—
41.7	24	72.4	80+	104+	66+	13.5	74	26.5	31+
40	25	69.2	77	100	63	13.3	75	26.2	31—
38.5	26	66.3	74+	96	60+	13.2	76	25.8	30+
37	27	63.6	71+	92+	57+	13	77	25.5	30—
35.7	28	61.3	69—	89—	55—	12.8	78	25.3	29+
34.5	29	59.2	67—	86—	53—	12.7	79	24.9	29—
33.3	30	57.3	64+	83—	50+	12.5	80	24.6	28+
32.3	31	55.6	62+	80—	48+	12.4	81	24.3	28+
31.3	32	54	60+	77+	46+	12.2	82	24	28—
30.3	33	52.6	59—	75—	45—	12.1	83	23.7	27+
29.4	34	51.2	57—	72+	43—	11.9	84	23.4	27—
28.6	35	50	55+	70+	41+	11.8	85	23.2	27—
27.8	36	48.7	54—	68+	40—	11.6	86	22.8	26+
27	37	47.6	52+	66+	38+	11.5	87	22.6	26—
26.3	38	46.5	51	64+	37	11.4	88	22.4	26—
25.6	39	45.5	50—	63—	36—	11.2	89	22.2	25+
25	40	44.6	48+	61	34+	11.1	90	22	25—
24.4	41	43.8	47+	59+	33+	11	91	21.7	25—
23.8	42	43	46+	58—	32+	10.9	92	21.5	24+
23.3	43	42.2	45+	56+	31+	10.8	93	21.3	24—
22.7	44	41.4	44+	55+	30+	10.6	94	21.2	24—
22.2	45	40.7	43+	54—	29+	10.5	95	21	23+
21.7	46	40	42+	53—	28+	10.4	96	20.7	23+
21.3	47	39.3	41+	51+	27+	10.3	97	20.5	23—
20.8	48	38.6	41—	50+	27—	10.2	98	20.4	23—
20.4	49	37.9	40—	49+	26—	10.1	99	20.2	22+
20	50	37.3	39	48	25	10	100	20	22

# Breaking Strength of Carded Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	7 $\frac{1}{8}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$
10 . . . . .	150.5	186.5	218.5	254	—
12 . . . . .	125	153.5	181.5	210	248
14 . . . . .	106	130	154	178	205
16 . . . . .	90	111.5	133	155	176.5
18 . . . . .	78	97.5	116.5	137	156
20 . . . . .	68	85.5	103.5	122.5	140.5
22 . . . . .	59.5	76	92	109	123.5
24 . . . . .	53	69	83	98.5	111.5
26 . . . . .	47.5	62.5	76	89	102
28 . . . . .	43.5	57.5	70	81.5	93
30 . . . . .	40	52.5	64.5	75	86
32 . . . . .	35.5	48	60	69	80
34 . . . . .	33.5	44.5	55.5	64	75
36 . . . . .	30.5	41	51	60	70
38 . . . . .	28	38.5	47.5	56	66
40 . . . . .	25.5	35.5	44	52.5	62
42 . . . . .	23.5	33	41	49	58.5
44 . . . . .	22	30.5	38.5	46	55
46 . . . . .	20	28.5	36	44	52
48 . . . . .	18.5	27	34	41.5	48.5
50 . . . . .	17	25	32	39	46.5
52 . . . . .	16	23.5	30	37	44.5
54 . . . . .	15	22	28.5	35	42.5
56 . . . . .	13.5	20.5	26.5	33.5	40.5
58 . . . . .	12.5	19	25	31.5	38.5
60 . . . . .	11.5	17.5	23.5	30	36.5
62 . . . . .	11	16.5	22	28	34.5
64 . . . . .	10	15.5	21	26.5	33
66 . . . . .	9	14	19.5	25	31
68 . . . . .	8	13	18	23.5	29.5
70 . . . . .	7.5	12.5	17.5	22	28

$$\text{Strength of yarn in pounds} = \frac{1600 (1 + \text{or} - .11a + \text{or} - .01b)}{c}$$

a = Difference in sixteenths of staple over or under one inch. Use + sign when over, — when under.

b = Difference in number of yarn above or below 28s. Use — sign when over 28s, + sign when below 28s.

c = Yarn count.

The above table represents the breaking strength found by testing a great many samples of yarn using the 120 yard skein after conditioning in an atmosphere containing 70 per cent relative humidity.

# Breaking Strength of Combed Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
20	113	132.5	151.5	170	189
22	100	119	136.5	152.5	173
24	90	108.5	125	139.5	157
26	83	98.5	114	128	143.5
28	76.5	90	105	117.5	133
30	70.5	82.5	96	108	121.5
32	64.5	76.5	89	100	112
34	60	71	82.5	94	105
36	56	66.5	77.5	88	99
38	52	61.5	72.5	82	92.5
40	48	57.5	68	77.5	87
42	45	54	64	73	82
44	42	51	60	68.5	77.5
46	39.5	48	57	65	73.5
48	37.5	45.5	53.5	61.5	69
50	35	43	51	58.5	65.5
52	33	40.5	48	55.5	62
54	31	38.5	46	52.5	59
56	29.5	36.5	43.5	50.5	56.5
58	28	34.5	41	47.5	53.5
60	26.5	32.5	39.5	45.5	51
62	25	31	37.5	43.5	49
64	24	29.5	35.5	41.5	47
66	22.5	28	34	39.5	45
68	21.5	27	32.5	38.5	43.5
70	20	26	31	36.5	41.5
72	19	24.5	30	35	40
74	18	23.5	28.5	33.5	38.5
76	17	22.5	27.5	32	37.5
78	16.5	21.5	26.5	31	36
80	15.5	20.5	25.5	30	34.5
82	15	19.5	24.5	28.5	33
84	14	18.5	23	27.5	31.5
86	13	17.5	22	26.5	30.5
88	12.5	17	21	25.5	29.5
90	12	16	20	25	28.5
92	11	15.5	19.5	24	27.5
94	10.5	15	18.5	23	27
96	9.5	14	17.5	22	26
98	9	13.5	17	21	25.5
100	8.5	12.5	16.5	20	24.5
102	8	12	15.5	19.5	23.5
104	7.5	11.5	15	19	22.5
106	7	11	14.5	18	22
108	7	10.5	14	17.5	21.5
110	6.5	10	13.5	17	20.5
112	6	9.5	12.5	16.5	19.5
114	5.5	9	12	16	19
116	5.5	8.5	11.5	15.5	18.5
118	5	8	11	15	17.5
120	4.5	7.5	10.5	14	17

Strength of Combed Yarns computed from formula:

$$\frac{1750 (1 + .11a \pm .01b)}{c} = s$$

c = counts.

s = strength in pounds.

a = difference in sixteenths of staple over one inch.

d = difference in number of yarn above or below 28s, use — sign when over and + sign when under.

## Correction Tables for Converting the Apparent Breaking Strength to a 6.5 Per Cent Basis

The "Correction Rates" of strength increase for various fabrics has been computed by Prof. George B. Haven<sup>1</sup> to be as follows:

FABRIC	Weight of Fabric in Ounces per Square Yard at 6 Per Cent Regain	Correction Rate
Cheesecloth . . . . .	1.54	0.51
Osnaburg . . . . .	8.10	2.67
Airplane wing fabric . . . . .	4.00	1.32
Sheeting . . . . .	5.48	1.81
Tire duck . . . . .	17.30	5.71
Belt duck . . . . .	29.10	9.60
Heavy duck . . . . .	49.34	16.28

Correction tables for three of these fabrics have been made, based on the following formula:

$$\text{Corrected breaking strength} = \frac{\text{Apparent strength} \times [100 + ("X" \times 6.5)]}{100 + ("X" \times \text{actual regain at test})}$$

Where for sheeting X=1.81 for regains between 3 and 9 per cent.

Osnaburg X=2.67 for regains between 3 and 9 per cent.

Tire fabric X=7.0 for regains between 3 and 6.5 per cent.

X=4.0 for regains between 6.5 and 9 per cent.

<sup>1</sup>For complete data see National Association of Cotton Manufacturers' Transactions No. 110, pages 117-154.

**Correction Table for Converting the Apparent Breaking Strength of Sheet Pile Weighing Approximately 5.5 Ounces per Square Yard to a 6.5 Per Cent Regain Basis**

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
35.0	37.1	36.7	36.5	36.4	35.9	35.6	35.3	35.0	34.7	34.4	34.2	33.9	33.6
37.5	39.8	39.4	39.2	38.8	38.4	38.1	37.8	37.5	37.2	36.9	36.7	36.4	36.1
40.0	42.4	42.0	41.7	41.3	41.0	40.7	40.3	40.0	39.7	39.3	39.1	38.8	38.5
42.5	45.1	44.6	44.3	43.9	43.5	43.2	42.9	42.5	42.2	41.8	41.5	41.2	41.8
45.0	47.7	47.3	46.9	46.5	46.1	45.8	45.4	45.0	44.6	44.3	44.0	43.6	43.3
47.5	50.1	49.8	49.5	49.1	48.7	48.3	47.9	47.5	47.1	46.7	46.4	46.0	45.6
50.0	53.0	52.5	52.1	51.7	51.2	50.9	50.4	50.0	49.6	49.2	48.9	48.5	48.1
52.5	55.6	55.2	54.7	54.3	53.8	53.4	53.0	52.5	52.1	51.6	51.3	50.9	50.4
55.0	58.4	57.8	57.3	56.8	56.3	56.0	55.5	55.0	54.6	54.1	53.8	53.3	52.9
57.5	61.0	60.4	59.9	59.4	58.9	58.5	58.0	57.5	57.0	56.6	56.2	55.8	55.3
60.0	63.6	63.0	62.5	62.0	61.5	61.0	60.6	60.0	59.5	59.0	58.6	58.2	57.6
62.5	66.2	65.6	65.1	64.6	64.1	63.6	63.1	62.5	62.0	61.5	61.1	60.6	60.0
65.0	69.0	68.2	67.8	67.2	66.6	66.1	65.6	65.0	64.5	64.0	63.6	63.0	62.4
67.5	71.6	70.8	70.3	69.8	69.2	68.6	68.1	67.5	67.0	66.4	66.0	65.5	64.8
70.0	74.2	73.4	72.9	72.3	71.8	71.2	70.6	70.0	69.5	68.8	68.4	68.0	67.3
72.5	76.8	76.2	75.5	75.0	74.3	73.8	73.2	72.5	71.9	71.3	70.9	70.3	69.7
75.0	79.6	78.8	78.1	77.5	76.9	76.3	75.6	75.0	74.4	73.7	73.3	72.8	72.1
77.5	82.2	81.4	80.7	80.1	79.4	78.8	78.2	77.5	76.9	76.2	75.7	75.2	74.5
80.0	84.8	84.0	83.3	82.8	82.0	81.4	80.7	80.0	79.4	78.7	78.2	77.6	76.9
82.5	87.4	86.6	86.0	85.3	84.5	83.9	83.2	82.5	81.8	81.1	80.6	80.0	79.3
85.0	90.1	89.2	88.6	87.8	87.2	86.5	85.8	85.0	84.4	83.6	83.1	82.4	81.7

**Correction Table for Converting the Apparent Breaking Strength of 30-inch 7-ounce Osnaburg to  
a 6.5 Per Cent Regain Basis**

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
60.0	65.2	64.4	63.6	62.8	62.1	61.4	60.7	60.0	59.2	58.6	58.1	57.3	56.7
62.5	67.8	67.1	66.2	65.4	64.7	63.9	63.2	62.5	61.7	61.0	60.4	59.8	59.1
65.0	70.6	69.8	68.9	68.0	67.2	66.4	65.7	65.0	64.2	63.7	62.9	62.2	61.3
67.5	73.3	72.5	71.6	70.7	69.9	69.0	68.3	67.5	66.7	65.9	65.2	64.5	63.8
70.0	76.0	75.2	74.2	73.3	72.5	71.6	70.8	70.0	69.2	68.4	67.7	66.9	66.2
72.5	78.7	77.9	76.8	75.9	75.0	74.1	73.4	72.5	71.6	70.8	70.2	69.3	68.6
75.0	81.4	80.6	79.5	78.5	77.7	76.8	75.8	75.0	74.0	73.3	72.6	72.7	70.9
77.5	84.2	83.3	82.2	81.1	80.2	79.2	78.3	77.5	76.5	75.7	74.9	74.0	73.3
80.0	86.9	85.9	84.8	83.8	82.8	81.8	80.9	80.0	79.0	78.1	77.4	76.4	75.6
82.5	89.6	88.6	87.5	86.4	85.4	84.4	83.4	82.5	81.5	80.6	79.8	78.9	78.0
85.0	92.2	91.3	90.0	89.0	88.0	87.0	86.0	85.0	84.0	83.0	82.2	81.2	80.3
87.5	95.0	94.0	92.7	91.6	90.6	89.5	88.5	87.5	86.5	85.4	84.6	83.5	82.7
90.0	97.7	96.6	95.4	94.2	93.2	92.0	91.0	90.0	88.8	87.9	87.0	86.0	85.0
92.5	100.4	99.4	98.0	96.9	95.8	94.6	93.5	92.5	91.4	90.3	89.5	88.4	87.4
95.0	103.1	102.0	100.6	99.4	98.4	97.2	96.1	95.0	93.9	92.8	90.0	90.8	89.8



Correction Table for Converting the Apparent Breaking Strength of 17 $\frac{1}{4}$ -Ounce Tire Fabric to a 6.5 Per Cent Regain Basis

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
105	123.7	120.6	117.7	114.9	112.3	109.7	107.3	105.0	103.3	101.7	100.2	98.7	98.3
110	129.6	126.4	123.3	120.4	117.6	115.0	112.4	110.0	108.2	106.4	105.0	103.4	101.9
115	135.5	132.1	128.9	125.9	123.0	120.2	117.5	115.0	113.1	111.5	109.8	108.1	106.5
120	141.4	137.9	134.5	131.0	128.3	125.4	122.6	120.0	118.0	116.3	114.6	112.8	111.1
125	147.3	143.6	140.1	136.8	133.7	130.6	127.8	125.0	122.9	121.2	119.3	117.5	115.8
130	153.1	149.3	145.7	142.3	139.0	135.9	132.9	130.0	127.9	126.0	124.1	122.2	120.4
135	159.0	155.1	151.3	147.8	144.3	141.1	138.0	135.0	132.8	130.8	128.9	126.9	125.1
140	164.9	160.8	156.9	153.2	149.7	146.3	143.1	140.0	137.7	135.7	133.6	131.6	129.7
145	170.8	166.6	162.5	158.7	155.0	151.5	148.2	145.0	142.6	140.5	138.4	136.3	134.3
150	176.7	172.3	168.1	164.2	160.4	156.8	153.3	150.0	147.6	145.4	143.2	141.0	138.9
155	182.6	178.1	173.7	169.6	165.7	162.0	158.4	155.0	153.5	150.2	147.9	145.7	143.6
160	188.5	183.8	179.4	175.1	171.1	167.2	163.5	160.0	158.4	155.0	152.6	150.4	148.3
165	194.4	189.5	185.0	180.6	176.4	172.4	168.6	165.0	163.3	155.9	157.4	155.1	152.9
170	200.3	195.3	190.6	186.1	181.8	177.7	173.7	170.0	168.3	164.7	162.2	159.8	157.5
175	206.1	201.0	196.2	191.5	187.1	182.9	178.9	175.0	172.2	169.6	167.0	164.5	162.2
180	212.0	206.8	201.8	197.0	192.5	188.1	184.0	180.0	177.1	174.4	171.8	169.2	166.8
185	217.9	212.5	207.4	202.5	197.8	193.3	189.1	185.0	182.0	179.2	176.6	173.9	171.4
190	223.8	218.3	213.0	208.0	203.2	198.6	194.2	190.0	186.9	184.1	181.3	178.6	176.1
195	229.7	224.0	218.6	213.4	208.5	203.8	199.3	195.0	191.9	188.9	186.1	183.3	180.7
200	235.6	229.8	224.2	218.9	213.8	209.0	204.4	200.0	196.8	193.8	190.9	188.0	185.3
205	241.5	235.5	229.8	224.4	219.2	214.2	209.5	205.0	201.7	198.6	195.6	192.7	189.9
210	247.4	241.2	235.4	229.8	224.5	219.5	214.6	210.0	206.6	203.4	200.4	197.4	194.6
215	253.3	247.0	240.0	235.3	229.9	224.7	219.7	215.0	211.5	208.3	205.2	202.1	199.2
220	259.2	252.7	246.6	240.8	235.2	229.9	224.9	220.0	216.5	213.1	210.0	206.8	203.8
225	265.1	258.5	252.2	246.3	240.6	235.2	230.0	225.0	221.4	217.9	214.7	211.5	208.4

**Correction Table for Converting the Apparent Breaking Strength of 17<sup>1</sup>/<sub>4</sub>-Ounce Tire Fabric to a  
6.5 Per Cent Regain Basis — (Continued)**

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT												
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
230	270.9	264.2	257.8	251.7	245.9	240.4	235.1	230.0	226.3	222.8	219.7	216.2	213.1
235	276.8	270.0	263.4	257.2	251.3	245.6	240.2	235.0	231.3	227.7	224.4	220.9	217.7
240	282.7	275.7	269.0	262.7	256.6	250.8	245.3	240.0	236.2	232.6	229.2	225.6	222.3
245	288.6	281.4	274.6	268.1	262.0	256.1	250.4	245.0	241.2	237.4	234.0	230.3	226.9
250	294.5	287.2	280.1	273.6	267.3	261.3	255.5	250.0	246.1	242.3	238.7	235.0	231.6
255	300.4	292.9	285.8	279.1	272.7	266.5	260.6	255.0	251.0	247.1	243.5	239.7	236.2
260	306.3	298.7	291.5	284.6	278.0	271.7	265.7	260.0	255.9	251.9	248.3	244.4	240.8
265	312.1	304.4	297.1	290.0	283.4	277.0	270.8	265.0	260.8	256.8	253.0	249.1	245.5
270	318.1	310.2	302.6	295.5	288.7	282.2	276.0	270.0	265.7	262.6	257.8	253.8	250.1
275	323.9	315.9	308.3	301.0	294.0	287.4	281.1	275.0	270.6	266.5	262.6	258.5	254.7
280	329.8	321.7	313.9	306.5	299.4	292.6	286.2	280.0	275.6	271.3	267.4	263.2	259.4
285	335.7	327.4	319.5	311.9	304.7	297.9	291.3	285.0	280.5	276.1	272.1	267.9	264.0
290	341.6	333.1	325.1	317.4	310.1	303.1	296.4	290.0	285.4	281.0	276.9	272.6	268.6
295	347.5	338.5	330.7	322.9	315.4	308.3	301.5	295.0	290.4	285.8	281.7	277.3	273.2
300	353.4	344.6	336.3	328.3	320.7	313.5	306.6	300.0	295.3	290.7	286.4	282.0	277.9
305	359.3	350.4	341.9	333.8	326.1	318.8	311.7	305.0	300.2	295.5	291.2	286.7	282.5
310	365.2	356.1	347.5	339.3	331.5	324.0	316.8	310.0	305.1	300.3	296.0	291.4	287.1
315	371.1	361.3	353.1	344.8	336.8	329.2	321.9	315.0	310.0	305.2	300.7	296.1	291.8
320	376.9	367.6	358.7	350.2	342.2	334.4	327.1	320.0	315.0	310.0	305.5	300.8	296.4
325	382.8	373.3	364.3	355.7	347.5	339.7	332.2	325.0	319.9	314.9	310.3	305.5	301.0
330	388.7	379.1	369.9	361.2	352.8	344.9	337.3	330.0	324.8	319.7	315.1	310.2	305.7
335	394.6	384.8	375.5	366.7	358.2	350.1	342.4	335.0	329.7	324.5	319.8	314.9	310.3
340	400.5	390.6	381.1	372.1	363.5	355.3	347.5	340.0	334.6	329.4	324.6	319.6	314.9
345	406.4	396.3	386.7	377.6	368.9	360.6	352.6	345.0	339.6	334.2	329.4	324.3	319.5
350	412.3	402.1	392.3	383.1	374.2	365.8	357.7	350.0	344.5	339.1	334.1	329.0	324.2

**Correction Table for Converting the Apparent Breaking Strength of 17 $\frac{1}{4}$ -Ounce Tire Fabric to a 6.5 Per Cent Regain Basis — (Concluded)**

ACTUAL BREAK	PERCENTAGE OF REGAIN TO DRY WEIGHT													
	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	
355	418.2	407.8	397.9	388.5	379.6	371.0	362.8	355.0	349.5	343.9	338.9	333.7	328.8	
360	424.1	413.6	403.5	394.0	384.9	376.2	367.9	360.0	354.4	348.7	343.7	338.4	333.4	
365	429.9	419.3	409.2	399.5	390.3	381.5	373.1	365.0	359.4	353.6	348.4	343.1	338.1	
370	435.8	425.0	414.8	405.0	395.6	386.7	378.2	370.0	364.3	358.4	353.2	347.8	342.7	
375	441.7	430.8	420.4	410.4	401.0	391.9	383.3	375.0	369.2	363.3	358.0	352.5	347.3	
380	447.6	436.5	426.0	415.9	406.3	397.1	388.4	380.0	374.1	368.1	362.8	357.2	351.9	
385	453.5	442.3	431.6	421.4	411.7	402.4	393.5	385.0	379.0	372.9	367.5	361.9	356.6	
390	459.4	448.0	437.2	426.9	417.0	407.6	398.6	390.0	383.9	377.8	372.3	366.6	361.2	
395	465.3	453.8	442.8	432.3	422.3	412.8	403.7	395.0	388.9	382.6	377.1	371.3	365.8	
400	471.2	459.5	448.4	437.8	427.7	418.0	408.7	400.0	393.8	387.5	381.8	376.0	370.5	

**Interpolation Table**

	1	6	1.13	4.14	1.12	1.08	1.06	1.04	1.02	1.00	.98	.96	.94	.93
2	2.36	2.28	2.24	2.24	2.24	2.16	2.12	2.08	2.04	2.00	1.96	1.92	1.88	1.85
3	3.58	3.42	3.36	3.36	3.36	3.24	3.18	3.12	3.06	3.00	2.94	2.88	2.81	2.78
4	4.72	4.56	4.48	4.48	4.48	4.32	4.24	4.16	4.08	4.00	3.92	3.84	3.75	3.70
5	5.90	5.70	5.60	5.60	5.60	5.40	5.30	5.20	5.10	5.00	4.90	4.80	4.68	4.63

# Federal Specifications Board — Specifications for Cotton Materials

COMMODITY	Federal Specifications Board Number	Bureau of Standards Number
Absorbent cotton . . . . .	288	—
Airplane cloth, cotton mercerized, Grade A . . . . .	258a	C270
Asphalt-saturated woven cotton fabric for waterproofing . . . . .	294	C287
Bandage, gauze, compressed . . . . .	298	—
Bandage, plain gauze roller, assorted . . . . .	299	—
Belting, conveyor (stitched duck) . . . . .	466	—
Bottle, hot-water, cloth-inserted . . . . .	220a	C249
Cheesecloth, bleached or semi-bleached . . . . .	253b	C257
Cheesecloth remnants for wiping purposes . . . . .	344	—
Cheesecloth, unbleached . . . . .	252b	C258
Cheesecloth for wiping purposes . . . . .	251a	C255
Cloths, wiping . . . . .	260	C267
Cord, sash, cotton braided . . . . .	528	—
Cotton waste, colored . . . . .	263a	C263
Cotton waste, white . . . . .	262a	C262
Denim, blue, indigo (shrunk) . . . . .	256b	C265
Denim, blue, indigo (unshrunk) . . . . .	257a	C266
Denim, brown (shrunk) . . . . .	254b	C256
Denim, brown (unshrunk) . . . . .	255a	C259
Drill, unbleached . . . . .	557	—
Duck, cotton, numbered . . . . .	53	C136
Duck, light weight (army duck, gray) . . . . .	159	C166
Duck, tent (special construction for bleaching or dyeing, gray) . . . . .	160	C167
Gauze, plain . . . . .	289	—
Hose, air brake and signal, and gaskets . . . . .	43	—
Hose, chemical . . . . .	47	—
Hose, divers' . . . . .	44	C289
Hose, fire, cotton rubber lined (couplings and gaskets) . . . . .	38b	C114
Hose, gas . . . . .	40b	C290
Hose, gasoline, rubber-metal . . . . .	136a	C269
Hose, oil suction and discharge . . . . .	63b	C209
Hose, pneumatic . . . . .	41b	C307
Hose, spray . . . . .	45	—
Hose, steam . . . . .	49b	C268
Hose, tender (corrugated) . . . . .	46c	C288
Hose, water suction (smooth bore) . . . . .	50a	C292
Hose, water and wash deck . . . . .	48b	C291
Hosiery, sizes, measuring . . . . .	92	—
Oilcloth, table, white . . . . .	498	C357
Packing, fabric condenser tube . . . . .	99	—

# **Federal Specifications Board — Specifications for Cotton Materials — (Concluded)**

COMMODITY	Federal Specifica- tions Board Number	Bureau of Standards Number
Packing, rubber, cloth insertion . . . . .	110a	C236
Percale . . . . .	556	—
Pillowcases, cotton, bleached . . . . .	305	C277
Rags, colored cotton, for wiping machinery (sterilized) . . . . .	259a	C261
Rags, white cotton, for wiping machinery (sterilized) . . . . .	261a	C264
Ribbons, computing and recording machine . . . . .	169a	C188
Ribbons, hectograph . . . . .	168a	C187
Ribbons, typewriter . . . . .	167a	C186
Ring cushions, cloth-inserted . . . . .	226a	C254
Rope, cotton . . . . .	447	C326
Rubber sheeting . . . . .	233a	C253
Seams, stitches and stitching (price, 20 cents) . . . . .	384	C283
Shade cloth . . . . .	555b	—
Shades, window, rollers, slats, cords and accessories . . . . .	367b	—
Sheeting, cotton, bleached wide . . . . .	303	C273
Sheeting, cotton, brown . . . . .	301	C272
Sheeting, cotton, brown wide . . . . .	302	C278
Sheets, cotton, bleached (medium and high count sheeting)	304	C274
Sleeves, dredging . . . . .	42	—
Textile materials, general specifications for (methods of physical and chemical tests) . . . . .	345	C293
Tires, pneumatic, solid rubber and inner tubes . . . . .	3c	C115
Towels, huck (with woven name) . . . . .	422	C313
Twine, cotton . . . . .	530	—
Twine, cotton seine . . . . .	529	—

Specifications bearing only a Federal Specifications Board number are in mimeograph form and can be obtained upon request from the Federal Specifications Board, Bureau of Standards, Washington, D. C.

Specifications bearing Bureau of Standards circular numbers or other Bureau publication numbers in addition to the Federal Specifications Board number are in printed form and must be purchased from the Superintendent of Documents at the prices indicated. In requesting specifications from the Superintendent of Documents the Bureau publication number must be stated.

The price of each printed specification is 5 cents per copy, unless otherwise noted.

Construction of Standard Fabrics <sup>1</sup>

## ALBERTS

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
35.0	5.40	64	72	29.0	39.0
35.0	5.10	64	80	29.0	40.0
35.0	4.40	64	80	28.0	30.0
35.0	4.00	68	80	27.0	29.0

## BROADCLOTHS, PLY

35.0	4.50	124	68	2/80	2/110
37.0	4.40	140	76	2/92	2/100
37.0	4.50	144	76	2/100	2/100
37.5	4.00	134	61	2/80	2/80
37.5	4.35	144	80	2/94	2/110
37.5	4.40	158	66	2/100	2/100
37.5	4.50	144	76	2/100	2/100
38.0	4.20	114	71	2/80	2/80
38.5	4.14	150	68	2/100	2/90
40.0	4.25	140	78	2/100	2/100

## BROADCLOTHS, SINGLE

35.0	4.00	124	64	35.0	40.0
37.0	4.30	128	60	40.0	45.0
37.0	4.40	112	60	40.0	33.0
37.0	4.40	128	68	44.0	44.0
37.0	4.50	144	76	50.0	50.0
37.5	4.15	144	76	50.0	40.0
37.5	4.50	132	76	50.0	45.0
38.5	4.25	144	76	50.0	45.0
39.0	5.00	144	76	60.0	60.0
43.0	5.40	112	64	60.0	50.0

## BROADCLOTHS, SEMI

37.0	3.90	140	70	2/80	45.0
37.0	4.00	120	64	2/80	30.0
37.0	4.00	136	68	2/80	40.0
37.0	4.35	120	64	2/76	36.0
37.0	4.40	124	60	2/80	40.0
37.5	3.75	120	62	2/80	30.0
37.5	4.40	115	64	2/80	40.0
37.5	4.50	144	76	2/100	50.0
37.5	5.00	124	64	2/100	50.0
41.0	4.60	134	57	2/100	50.0

<sup>1</sup> Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics<sup>1</sup>—Continued

## DRILLS

Width	Weight Yards per Pound	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
30 0	2 50	76	58	14 0	14 0
30 0	2 85	71	48	14 0	14 0
30 0	3 00	66	44	13 0	14 0
30 0	4 00	68	48	20 0	16 0
30 0	5 25	60	40	22 0	18 0
37 0	2 35	68	40	13 0	12 0
37 0	3 00	68	40	13 0	22 0
37 0	3 25	68	40	16 0	16 0
37 0	3 50	68	40	18 0	18 0
37 0	3 95	66	36	18 0	23 0
54 0	1 93	92	40	13 5	15 5

## JEANS

26 5	3 75	84	56	21 0	21 0
30 0	4 00	84	56	21 0	27 0
31 5	3 22	96	64	21 0	24 0
32 0	3 31	96	64	22 0	24 5
36 0	3 40	100	64	24 0	36 0
38 0	2 95	96	64	22 0	30 0
38 0	3 15	84	56	21 0	26 0
38 0	2 85	96	64	22 0	26 0
39 0	3 00	96	64	24 0	28 0
58 0	2 25	84	56	22 0	28 0

## ORGANDIES

30 0	10 75	96	96	60 0	130 0
33 0	16 00	60	64	80 0	90 0
35 0	10 00	96	100	80 0	100 0
36 0	9 00	112	112	80 0	120 0
36 0	10 66	96	104	80 0	130 0
37 0	8 00	100	124	80 0	100 0
40 0	13 00	72	64	80 0	110 0
40 0	13 50	76	68	80 0	110 0
45 0	11 40	72	68	80 0	110 0
50 0	7 20	88	80	80 0	80 0

## PANAMA CHECKS

28 0	5 71	74	64	34 0	24 0
31 5	7 10	60	52	29 0	38 0
36 5	4 00	88	88	29 0	41 0
36 5	4 70	72	80	30 0	41 0
36 5	5 20	72	66	30 0	40 0
36 5	5 75	64	60	30 0	39 0
37 0	4 00	88	80	30 0	38 0
38 0	4 00	88	80	29 0	42 0
38 0	4 50	76	72	29 0	40 0
38 5	4 60	72	74	28 5	40 0

<sup>1</sup>Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics<sup>1</sup> — (Continued)

## PONGEE

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
34.0	7.00	72	100	80.0	41.0
43.0	4.90	76	104	80.0	40.0

## POPLINS, SEMI

27.0	7.50	103	46	2.80	36.0
27.0	5.90	104	42	2.60	29.0
28.0	4.65	112	40	2.50	30.0
28.0	4.65	114	38	2.50	30.0
28.0	4.87	102	48	2.50	28.0
28.0	5.27	101	48	2.60	25.0
28.0	5.50	101	48	2.60	30.0
36.0	3.90	96	40	2.50	25.0
37.0	3.40	88	40	2.40	25.0
37.5	4.10	80	40	2.50	21.0

## POPLINS, SINGLE

27.00	5.25	100	44	30.0	24.0
27.75	4.60	96	40	24.0	21.0
28.00	5.14	101	48	30.0	25.0
28.50	4.50	118	38	40.0	12.0
28.50	4.52	122	43	50.0	12.0
28.50	4.70	122	40	50.0	12.0
37.00	3.49	100	48	25.0	25.0
37.00	3.95	100	44	30.0	24.0
37.00	4.25	100	44	30.0	30.0
37.50	3.90	100	44	30.0	24.0
37.50	4.00	100	44	30.0	25.0

## PRINT CLOTH

28.0	7.30	64	60	30.0	38.0
27.0	7.60	64	60	30.0	38.0
27.0	8.70	56	55	30.0	42.0
27.0	9.00	56	52	30.0	40.0
27.0	9.75	56	44	29.0	41.0
25.0	10.55	56	44	30.0	40.0
32.0	6.50	64	60	30.0	40.0
31.5	7.50	56	52	29.0	39.0
34.0	6.00	64	60	28.0	40.0
36.0	5.75	64	60	30.0	38.0
35.0	5.00	68	72	30.0	37.0
39.0	6.60	56	44	28.0	40.0
40.0	6.00	56	56	29.0	43.7
38.5	6.25	60	48	30.0	40.0
38.5	5.35	64	60	28.0	40.0
39.0	4.75	68	72	30.0	40.0
39.0	4.25	72	76	30.0	37.0
39.0	4.00	80	80	28.0	39.0
43.0	5.60	56	52	29.0	38.0
43.0	5.85	56	48	28.0	41.0
44.0	4.65	64	60	30.0	38.0

<sup>1</sup> Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.



**Construction of Standard Fabrics<sup>1</sup> — (Continued)****SATEENS, FILLING**

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
31.5	5.50	64	88	32.0	37.0
37.5	5.25	64	72	28.0	42.0
37.5	4.70	64	88	29.0	42.0
37.5	4.37	64	104	34.0	38.0
39.0	4.20	64	104	34.0	38.0
39.0	4.00	64	112	28.0	42.0

**SATEENS, WARP**

29.0	4.20	112	64	28.0	30.0
34.0	3.60	108	60	28.0	26.0
34.0	3.00	112	64	22.0	28.0
38.0	5.09	200	96	70.0	95.0
38.0	6.50	128	68	60.0	70.0
38.0	5.75	140	72	60.0	70.0
38.0	5.75	140	76	60.0	70.0
39.0	5.75	168	88	60.0	100.0
43.0	3.35	160	96	52.0	44.0
54.0	1.05	96	64	13.5	11.0

**SHEETINGS, NARROW**

30.0	3.60	48	48	14.0	13.5
31.0	5.00	48	48	20.0	20.0
31.0	4.50	44	44	17.0	16.0
32.0	6.25	40	40	20.0	22.0
36.0	6.00	40	40	20.0	23.0
36.0	3.00	48	48	12.0	16.6
36.0	3.25	48	44	13.0	16.0
36.0	3.90	40	38	13.0	16.0
36.0	4.00	48	52	17.0	21.0
36.0	4.00	56	60	20.0	24.0
36.0	4.25	56	56	21.0	25.0
36.0	4.50	48	44	20.0	18.0
36.0	4.70	48	52	22.0	22.0
36.0	5.00	48	48	22.0	23.5
36.0	5.50	48	40	22.0	24.0
36.0	5.50	44	44	21.0	26.0
36.0	6.15	44	40	23.0	26.0
37.0	4.00	48	48	17.0	21.0
36.0	3.50	64	68	21.0	24.0
40.0	2.50	48	48	13.0	13.0
40.0	2.85	48	48	14.0	16.0
40.0	3.60	56	60	20.0	25.0
40.0	3.75	48	44	17.0	21.0
40.0	4.25	44	40	17.0	21.0
40.0	5.00	44	44	21.0	26.0
40.0	5.50	44	44	24.0	27.0
40.0	3.15	64	68	21.0	24.0

<sup>1</sup>Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

**Construction of Standard Fabrics<sup>1</sup>—(Concluded)****SHEETINGS, WIDE**

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
60.0	3.30	48	48	25.0	25.0
60.0	3.90	40	40	22.0	27.0
63.0	1.82	68	72	23.0	21.0
72.0	1.59	68	72	23.0	21.0
81.0	1.40	68	72	23.0	21.0
90.0	1.27	68	72	23.0	21.0
90.0	1.32	66	72	20.5	25.0
90.0	1.45	66	68	23.0	25.0
99.0	1.30	64	68	21.0	25.0
108.0	1.25	56	56	20.0	20.0
156.0	0.76	64	64	20.0	20.0

**TOBACCO OR CHEESE CLOTH**

36.0	13.50	32	24	30.0	42.0
36.0	13.00	32	28	30.0	43.0
36.0	12.00	32	28	30.0	37.0
36.0	10.50	36	32	30.0	37.0
36.0	10.20	40	32	30.0	38.0
36.0	9.65	40	36	28.0	38.0
36.0	9.20	44	36	29.0	38.0
36.0	9.20	40	40	29.0	40.0
36.0	8.50	44	40	30.0	37.0
36.0	8.10	44	44	29.0	38.0
36.0	7.75	48	44	29.0	38.0

**TWILLS, THREE-LEAF FILLING**

39.0	4.80	64	72	30.0	38.0
39.0	4.50	68	76	28.0	40.0
39.0	4.25	68	76	28.0	36.0
39.0	4.00	68	76	28.5	31.0
39.0	3.65	80	92	30.0	36.0
43.0	4.00	68	76	30.0	36.0

**TWILLS, THREE-LEAF WARP**

39.0	6.00	64	48	28.5	44.0
39.0	5.25	64	56	28.5	38.0
39.0	5.10	64	64	28.5	40.0
39.0	3.90	80	80	29.0	39.0
43.0	4.75	68	52	28.0	40.0
43.0	4.30	68	60	28.0	36.0

**TWILLS, FOUR-LEAF**

29.0	2.15	104	48	15.0	11.0
30.0	2.31	104	48	15.0	12.0
30.0	2.50	104	48	18.0	11.0
30.0	2.65	104	48	18.0	13.0
30.0	2.50	88	48	13.0	15.0
29.5	3.00	88	37	15.0	15.0
29.5	2.00	88	48	13.5	9.0
30.0	2.31	88	48	13.0	13.0
30.0	2.15	88	48	12.0	11.0
30.0	2.10	88	58	12.0	12.0
30.0	3.25	88	38	17.0	15.0
30.0	2.40	88	48	13.0	14.0

<sup>1</sup> Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

# Standard List of Wide and Sail Duck

The following table shows a list of ducks approved as standard by the Division of Simplified Practice and the Cotton Duck Association  
[Pounds per Yard]

Width (inches)	20	10	1	2	3	4	5	6	7	8	9	10	11	12	Width (inches)
22	1.250	1.187	1.125	1.062	1.000	0.938	0.875	0.812	0.750	0.687	0.625	0.562	0.500	0.437	22
24	1.364	1.295	1.227	1.159	1.091	1.023	0.955	0.886	0.818	0.750	0.682	0.614	0.545	0.477	24
26	—	—	1.829	1.756	1.682	1.608	1.534	1.460	1.386	1.312	1.238	1.164	1.090	1.016	26
28	—	—	1.482	1.408	1.334	1.260	1.186	1.112	1.038	0.964	0.890	0.816	0.742	0.668	28
30	—	—	1.584	1.509	1.434	1.359	1.284	1.209	1.134	1.059	0.984	0.909	0.834	0.759	30
32	—	—	1.686	1.611	1.536	1.461	1.386	1.311	1.236	1.161	1.086	1.011	0.936	0.861	32
36	—	—	1.841	1.766	1.691	1.616	1.541	1.466	1.391	1.316	1.241	1.166	1.091	1.016	36
38	—	—	1.943	1.868	1.793	1.718	1.643	1.568	1.493	1.418	1.343	1.268	1.193	1.118	38
40	—	—	2.045	1.970	1.895	1.820	1.745	1.670	1.595	1.520	1.445	1.370	1.295	1.220	40
42	—	—	2.148	2.073	1.998	1.923	1.848	1.773	1.698	1.623	1.548	1.473	1.398	1.323	42
44	—	—	2.250	2.175	2.100	2.025	1.950	1.875	1.800	1.725	1.650	1.575	1.500	1.425	44
48	—	—	2.454	2.379	2.304	2.229	2.154	2.079	2.004	1.929	1.854	1.779	1.704	1.629	48
50	—	—	2.557	2.482	2.407	2.332	2.257	2.182	2.107	2.032	1.957	1.882	1.807	1.732	50
54	—	—	2.761	2.686	2.611	2.536	2.461	2.386	2.311	2.236	2.161	2.086	2.011	1.936	54
60	—	—	3.065	2.990	2.915	2.840	2.765	2.690	2.615	2.540	2.465	2.390	2.315	2.240	60
66	—	—	3.370	3.295	3.220	3.145	3.070	2.995	2.920	2.845	2.770	2.695	2.620	2.545	66
72	—	—	3.682	3.607	3.532	3.457	3.382	3.307	3.232	3.157	3.082	3.007	2.932	2.857	72
84	—	—	4.296	4.221	4.146	4.071	3.996	3.921	3.846	3.771	3.696	3.621	3.546	3.471	84
90	—	—	4.602	4.527	4.452	4.377	4.302	4.227	4.152	4.077	4.002	3.927	3.852	3.777	90
96	—	—	4.909	4.834	4.759	4.684	4.609	4.534	4.459	4.384	4.309	4.234	4.159	4.084	96
100	—	—	5.114	5.039	4.964	4.889	4.814	4.739	4.664	4.589	4.514	4.439	4.364	4.289	100
108	—	—	5.522	5.447	5.372	5.297	5.222	5.147	5.072	4.997	4.922	4.847	4.772	4.697	108
120	—	—	6.136	6.061	5.986	5.911	5.836	5.761	5.686	5.611	5.536	5.461	5.386	5.311	120
132	—	—	6.750	6.675	6.600	6.525	6.450	6.375	6.300	6.225	6.150	6.075	6.000	5.925	132
144	—	—	7.364	7.289	7.214	7.139	7.064	6.989	6.914	6.839	6.764	6.689	6.614	6.539	144

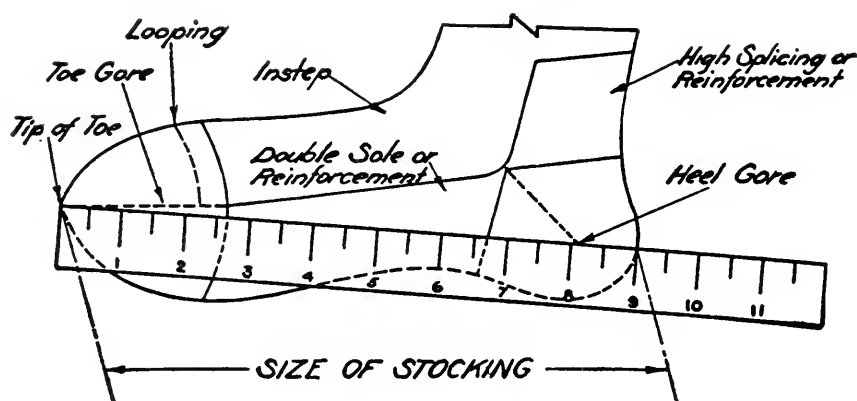
"The numbers in Roman type represent regular fabrics; all others, including widths intermediate to those listed, are specials. Only the list of regular numbers and widths to be carried in stock. Specials will be made up on order only in units of not less than 500 yards; and as far as possible the manufacture of specials will be restricted to units of 1,500 yards as representing the minimum at which operating efficiency is obtainable."

## Standard Measurement of Hosiery Sizes

### BUREAU OF STANDARDS CIRCULAR NO. 149

The method of measuring the size of circular knit hosiery may be defined as follows: After the hose has been boarded and pressed and appears in a flat and unwrinkled condition, place a ruler along a line in which the tip of the toe and the bottom of the heel gore are connected. The measured distance along this line from the tip of toe to the intersection with the back of the heel to the nearest half inch is the hosiery size. Preference should be given to the lower number; that is, if the exact measurement, as found by the system, is  $10\frac{1}{4}$  inches exactly, it is desirable to call the stocking size 10.

Diagram showing application of ruler between the points selected, denoting size.



*Approved method for measuring hosiery*

This diagram shows the application of ruler to the hosiery

## Standard Size of Bed Blankets

### COTTON, WOOL, COTTON AND WOOL MIXED

The following sizes of bed blankets were adopted as standard by the Division of Simplified Practice and representatives of the blanket manufacturers on June 2, 1924:

SIZES IN INCHES			
Width		Length	
54	.	76	66
60	.	76	66
60	.	80	68
60	.	84	70
64	.	76	72
66	.	80	80
			84
			90
			80
			80
			84
			90

Form approved and adopted by The National Association of Cotton Manufacturers  
and American Cotton Manufacturers' Association, 1910

Number

Quantity:

yards (variation not to exceed 2 % allowed)	} Allowable variation in	
pieces of		length of pieces if
bales of		<i>special.</i>

In addition, buyer to take and seller to deliver if made:  $\begin{cases} \sigma_0^0 & \text{Seconds @} \\ \sigma_0^0 & \text{Tailings at stated contract price if con-} \\ & \text{tract is not renewed.} \end{cases}$

Time of delivery: from date hereof

during each week, commencing week ending

during each month, beginning in the month of

Count per inch: Warp                      Filling

Count per piece. Weight { No shipment to average lighter  
No bale to be over 1%  
No piece to be over 3% heavier } than Yards to the pound.

Price: \_\_\_\_\_ Cents per yard.

Terms of payment:

Net \_\_\_\_\_ days from date of delivery.

Net days from date of delivery. % for payment within days from date of delivery.

Place of delivery:

F. O. B. to carrier at	with	freight allowance.
------------------------	------	--------------------

F. O. B.

Special conditions:

Shipping instructions:

If the production of the seller shall be curtailed during the time above named, by strikes, lockouts, or unavoidable casualties, the deliveries shall be made and accepted in proportion to the production.

The provisions of paragraphs I, II and III, and the allowable variations from specifications as adopted by The American Cotton Manufacturers' Association and The National Association of Cotton Manufacturers, all as printed on the back hereof,<sup>1</sup> are accepted and agreed to as a part of this contract, unless otherwise stated herein.

This sale note is the entire contract between the buyer and seller, and any alteration in or changes from the printed form of this contract must appear on it in writing.

To \_\_\_\_\_ (Signed)

<sup>1</sup> See following page.

*Paragraph I. Passing of Title on Delivery.* — Unless otherwise specified, the title to goods sold passes to the buyer (subject to the right of stoppage *in transitu*): —

a. Upon delivery F. O. B. to carrier, consigned to buyer, and thereafter goods are at buyer's risk.

b. Upon arrival of goods at destination and delivery to buyer of bill of lading or of goods, in the case of goods to be delivered F. O. B. elsewhere than to carrier.

c. Upon delivery of indorsed bill of lading or of goods, in the case of goods consigned to seller's order.

d. Upon the separation of the goods and holding subject to buyer's order (the invoice to follow by due course of mail), in the case of goods to be held or if buyer fails to give shipping instructions.

*Paragraph II. Storage and Insurance.* — Goods invoiced and held subject to buyer's orders shall be at buyer's risk, but covered by fire insurance effected by sellers in reputable companies.

*Paragraph III. Rejections and Claims.* — The buyer cannot reject the goods for delay in delivery unless he notifies the seller within five business days from receipt of bill of lading, or of invoice if goods are to be held. When contract calls for delivery in instalments, the buyer cannot cancel the contract for any default in any one or more instalments not amounting to a substantial breach of contract, but may cancel or replace at seller's expense any delivery that is delayed.

Buyer cannot reject goods for defects in quality or other like defaults (a) if he cuts or converts them, nor (b) unless he notifies seller within ninety days from receipt by him or at finishing works of goods not held, or within ninety days after date of invoice if goods are invoiced and held; nor (c) unless such defects amount to a substantial breach of contract.

Loss of right to reject does not deprive the buyer of his right to claim damages, if any; but no recovery shall be had on any claim not made within one year from receipt of goods or from date of invoice if goods are held.

#### *Allowable Variations from Contract Specifications.*

*Width.* — The width shall not vary anywhere by more than  $\frac{3}{8}$  of an inch below the stipulated width, nor more than  $\frac{5}{8}$  of an inch above. The width shall not be uniformly less than the stipulated width, but must, in a majority of places in each piece, be equal to, or greater than, the stipulated width. Goods shall be measured at right angles to the selvages when laid open on a flat, horizontal surface and smoothed out by hand, but not stretched.

*Warp Count.* — Except within four inches of each selvage, (where exclusive of the selvage, the count must approximate that stipulated) the number of warp threads per inch shall not vary anywhere by more than one thread per inch below the stipulated count, nor by more than two threads per inch above. The number of threads in each piece must equal the stipulated count multiplied by the stipulated width plus the extra threads used in the selvage.

*Filling Count.* — The number of threads in the filling, or weft, shall not vary anywhere by more than three threads per inch below the stipulated count, nor by more than four above. In the case of sateens, when the count of filling exceeds the count of the warp, the allowance for variation above specified shall be increased by the same percentage that the filling count exceeds that of the warp count. In any case including sateens, the filling count per inch shall not run below the stipulated count throughout the piece, but must, in a majority of places in each piece, equal or be more than, the stipulated count.

*Weight.* — In case of controversy regarding the weight of goods, decision shall be based on goods which have been exposed for twenty-four hours to normal atmospheric conditions approximating a temperature of 70 degrees F. and a humidity of 70 per cent.

## Identification of Rayons (Artificial Silks)

### MICROSCOPICAL METHODS

The individual manufacturer, as well as the process by which rayon or artificial fibers are made, can be determined from a comparison of the cross-sections of the yarn in question with photomicrographs of standard samples. The photomicrographs on page 265 give an illustration of the difference in appearance of the fibers manufactured by the different companies.

### CHEMICAL METHODS

(Committee D-13 American Society for Testing Materials)

*To distinguish cellulose acetate from all other rayons:*

(a) Twist fibers into a tight wad and then cautiously approach to a match flame, without being brought into contact with the flame.

Cellulose acetate rayons melt or fuse, forming a black knob, or globule, on the end, which precedes the small, sputtering, relatively slow-burning flame down the thread. If the flame be extinguished and the knob cooled, this will be found to be somewhat hard and resistant to crushing.

Nitro-cellulose, cuprammonium and viscose rayons do not melt back but burn quietly and readily like bleached cotton fibers, and the odor from the fumes is the same as that coming from burned cotton.

(b) Treat the sample with pure acetone.

Cellulose acetate rayon is soluble up to 1 per cent, while nitro-cellulose, cuprammonium and viscose rayons are insoluble.

(c) Dissolve in glacial acetic acid (water white).

Cellulose acetate rayon dissolves; on adding water, precipitates as milky unstable emulsion or translucent glutinous material.

Nitro-cellulose, cuprammonium and viscose rayons are all insoluble.

*To distinguish nitro-cellulose rayons from viscose and cuprammonium rayons:*

Treat the water-moistened yarn with a 1 per cent solution of diphenylamine in concentrated sulphuric acid (specific gravity 1.84).

Nitro cellulose rayon immediately assumes a blue color and dissolves in a few seconds, yielding a blue coloration.

Cuprammonium and viscose rayons are not colored blue.

*To distinguish cuprammonium rayons from viscose rayons:*

Prepare a bath containing 1 per cent of the sample weight of Pontamine Scarlet B or equivalent colors, using one-half gram per 200 cc. of water. Immerse samples into liquor simultaneously, heating to 65° C. for ten minutes. The samples may then be washed thoroughly and compared wet or dry.

The cuprammonium rayons stain heavier and the viscose rayons lighter.

Place 5 grams of the unknown sample of rayon (viscose or cuprammonium) together with 100 cc. of water and 3 cc. of concentrated sulphuric acid, in a flask, the mouth of which is covered with a piece of filter paper saturated with a 10 per cent solution lead acetate, then place the flask over a moderately boiling steam bath for four hours. If at the end of this period the exposed part of the lead acetate paper becomes stained with a brown or black color, the rayon is viscose rayon; if no coloration is obtained the sample is cuprammonium rayon.

### Width of Some Standard Fabrics

The following is a list of the widths on which the weight of the fabrics listed are based:

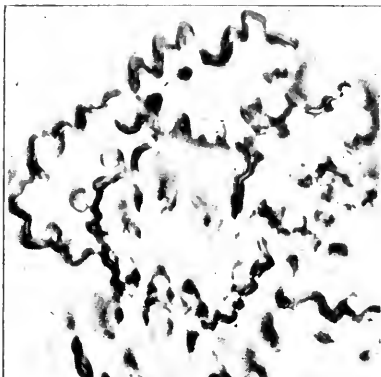
	Inches
Single and double filling ducks . . . . .	29
Enameling ducks . . . . .	38, 46½, 51½, 61½, 63
Army ducks . . . . .	28½
Shelter tent duck . . . . .	35¼
Shoe duck . . . . .	37
Tire duck . . . . .	36
Hose duck . . . . .	40
Rubber belt duck . . . . .	42
Balata belt duck . . . . .	36
Oil or stitched belt duck . . . . .	36
Numbered duck (American) . . . . .	22
Numbered duck (English) . . . . .	24
Mitten flannels . . . . .	33
Ticking . . . . .	32
Osnaburg . . . . .	30



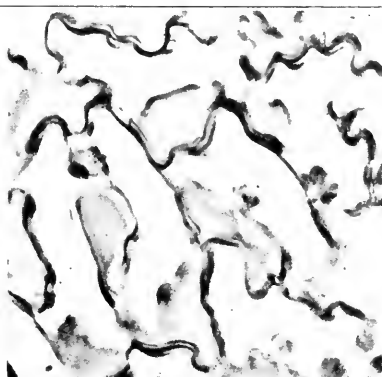
# Artificial Fiber Cross-Sections

[Magnification 700]

Courtesy of The Cotton Research Company



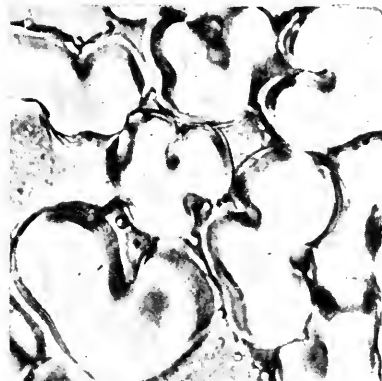
Viscose Process



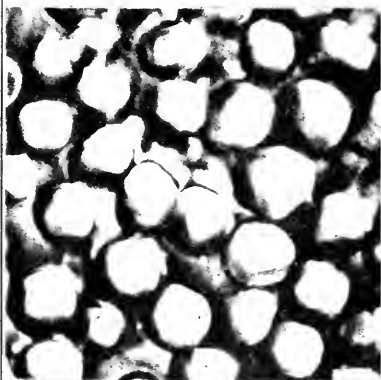
Viscose Process



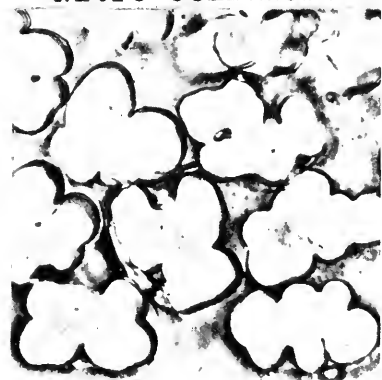
Viscose Process



Nitro-Cellulose



Cuprammonium Process



Acetate Process

## Thrown Silk Rules to govern Transactions between Buyers and Sellers in the United States of America

Taken from Rules published by the Silk Association of America

### ARTICLE I

#### *General*

SECTION 1. Nothing in the following rules shall be construed as waiving the right in individual transactions to make any special contrary agreement, but the rules shall govern in cases where no such special contract exists. . . .

### ARTICLE II

#### *Sales*

SECTION 1. Sales of specified or identifiable lots of thrown silk, either from stock or for future delivery are cancelled by destruction or loss of such silks by fire, flood or any other causes beyond control of Seller, prior to delivery dates as called for by the contract. . . .

### ARTICLE III

#### *Deliveries*

SECTION 1. Sales for delivery on a given date, demand delivery on the date specified. . . .

### ARTICLE IV

#### *Weights*

SECTION 1. In the absence of stipulation as to weight, invoice weight at time of delivery or readiness to deliver at point of shipment shall apply, provided the weight does not exceed conditioned weight on European silks, conditioned weight plus 2% on all other silks, except Tsatlee Rereels, Haining Rereels, Native China Rereels, and other similar silks, which shall be conditioned weight plus 2½%. . . .

### ARTICLE V

#### *Boil-Off*

SECTION 1. Boil-off percentage stipulations on all kinds of thrown silk are entirely a matter of mutual agreement between Buyer and Seller. . . .

### ARTICLE VI

#### *Twist*

SECTION 1. In the absence of any twist stipulations, the following turns per inch shall govern all sales of thrown silks made from 13/15 and/or 14/16 denier raw silk:

2-thread Organzine, 16 first time, 14 second time	
3-thread Organzine, 16 first time, 12 second time	
Tram . . . . .	2½ to 3½
2-thread Georgette Crêpe . . . . .	65 to 70
Ordinary Crêpes . . . . .	60 to 65

In the case of all other classes of thrown silk, the twist must be stipulated in contract. . . .

## ARTICLE VII

### *Drammage*

SECTION 1. In case of stipulated drammage, the variation above or below the average stated must not exceed 3%. In the case of silks like Tsatlee Rereels, Haining Rereels, Tussah and other similar grades, variation must be by special agreement between Buyer and Seller. . . .

## ARTICLE VIII

### *Length of Skeins*

SECTION 1. In the absence of stated length of skeins, the following will apply:

2-thread Organzine	. . .	20,000 yards
3-thread Organzine	. . .	10,000 yards
2-thread Tram	. . .	15,000 yards
3-thread Tram	. . .	10,000 yards
4-thread Tram	. . .	7,500 yards
5-thread Tram	. . .	5,000 yards

The above lengths will apply on thrown silk made from 13/15 and/or 14/16 denier, European, Japan, Canton and China Filature Silks only. On all other grades of thrown silk delivered in skeins, the length is optional with Seller unless stipulated in contract. . . .

## ARTICLE IX

### *Responsibility of Buyer and Seller*

SECTION 1. The Seller is under obligation to deliver thrown silks of contract quality, size, weight, etc., as defined in these rules. The Buyer is equally under obligation to examine and test the silk received or tendered for delivery under contract and promptly pass upon its quality, size, weight, etc., and its compliance with the contract. . . .

## ARTICLE X

### *Selling Terms*

SECTION 1. The rate of discount on thrown silk is 6 per cent per annum. . . .

## ARTICLE XI

### *General Terms*

SECTION 1. All prices are understood to be F. O. B. Seller's shipping point. . . .



# OFFICERS AND MEMBERS OF THE ASSOCIATION

## OFFICERS OF THE ASSOCIATION FROM THE FIRST ORGANIZATION

### PRESIDENTS

EZEKIEL A. STRAW .	1865-78	CHARLES H. FISH .	1901-03
AMOS D. LOCKWOOD .	1878-80	HERBERT E. WALMSLEY	1903-05
JOHN KILBURN .	1880-83	JAMES R. MACCOLL .	1905-07
WILLIAM C. LOVERING .	1883-85	WM. D. HARTSHORNE .	1907-08
RICHARD GARSED .	1885-86	CHARLES T. PLUNKETT	1908-10
JOSEPH S. LUDLAM .	1886-88	FRANKLIN W. HOBBS .	1910-12
HENRY F. LIPPITT .	1888-89	EDWIN F. GREENE .	1912-14
WALTER E. PARKER .	1889-92	ALBERT G. DUNCAN .	1914-16
ROBERT MCARTHUR .	1892-94	ALBERT FARWELL BEMIS	1916-18
EDWARD W. THOMAS .	1894-95	W. FRANK SHOVE .	1918-20
ALFRED M. GOODALE .	1895-96	RUSSELL B. LOWE .	1920-22
ARTHUR H. LOWE .	1896-97	ROBERT AMORY .	1922-24
RUSSELL W. EATON .	1897-98	MORGAN BUTLER .	1924-25
STEPHEN A. KNIGHT .	1898-99	WILLIAM B. MACCOLL	1925-27
FREDERICK E. CLARKE	1899-99	G. EDWARD BUXTON .	1927-
DAVID M. THOMPSON .	1900-01		

### VICE PRESIDENTS

WILLIAM A. BURKE .	1865-73	JAMES R. MACCOLL .	1903-05
AMOS D. LOCKWOOD .	1865-77	WM. D. HARTSHORNE .	1903-07
JOHN C. PALFREY .	1873-76	GEORGE A. AYER .	1905-07
EDWARD ATKINSON .	1876-78	CHARLES T. PLUNKETT	1907-08
A. G. CUMNOCK .	1877-80	GEORGE OTIS DRAPER .	1907-11
CHARLES NOURSE .	1878-81	FRANKLIN W. HOBBS .	1908-10
WILLIAM F. GOULDING .	1880-83	EDWIN F. GREENE .	1910-12
RICHARD GARSED .	1881-85	FREDERICK A. FLATHER	1911-13
JOSEPH S. LUDLAM .	1883-86	GEORGE P. GRANT, Jr.	1912-14
WALTER E. PARKER .	1885-89	ALBERT G. DUNCAN .	1913-14
RICHARD B. BORDEN .	1886-88	WILLIAM M. BUTLER .	1914-16
ARNOLD B. SANFORD .	1888-91	GROSVENOR ELY .	1914-16
ROBERT MCARTHUR .	1889-92	W. FRANK SHOVE .	1916-18
SIMEON B. CHASE .	1891-93	RUSSELL B. LOWE .	1916-20
EDWARD W. THOMAS .	1892-94	JAMES THOMSON .	1918-22
ALFRED M. GOODALE .	1893-95	ROBERT AMORY .	1920-22
WILLIAM J. KENT .	1894-97	NATHAN DURFEE .	1922-24
FRED C. McDUFFIE .	1895-00	JOHN SKINNER .	1922-24
HENRY T. WHITIN .	1897-00	RUSSELL H. LEONARD .	1924-27
CHAS. H. RICHARDSON .	1900-01	JOHN A. SWEETSER .	1924-27
GEORGE H. HILLS .	1900-02	PHILIP DANA .	1927-
HERBERT E. WALMSLEY	1901-03	ALFRED E. COLBY .	1927-
ALFRED E. ADAMS .	1902-03		

## DIRECTORS

DANIEL D. CROMBIE .	1865-68	RUSSELL W. EATON .	1896-97
JONES S. DAVIS .	1865-69	GEORGE H. HILLS .	1897-00
WILLIAM P. HAINES .	1865-69	CHAS. H. RICHARDSON .	1897-00
PHINEAS ADAMS .	1865-74	JOHN T. MEATS .	1898-01
THOMAS J. BORDEN .	1865-78	GEORGE F. WHITTEN .	1898-04
CHARLES NOURSE .	1865-78	ALFRED E. ADAMS .	1899-02
A. M. WADE .	1868-69	A. TENNY WHITE .	1899-02
DAVID J. JOHNSTON .	1869-70	CHARLES H. FISH .	1900-01
FREDERICK E. CLARKE .	1869-75	HERBERT E. WALMSLEY	1900-01
A. G. CUMNOCK .	1869-77	WM. D. HARTSHORNE .	1901-03
JOHN KILBURN .	1870-80	JAMES R. MACCOLL .	1901-03
WILLIAM P. HAINES .	1874-78	W. B. SMITH WHALEY .	1901-04
CYRUS I. BARKER .	1875-80	JAMES R. MONTGOMERY	1902-05
HERVEY KENT .	1877-81	WM. D. PENNELL .	1902-05
WALTER PAINE, 3d .	1878-80	PHILIP A. MATHEWSON	1903-06
DAVID J. JOHNSTON .	1878-82	GEORGE P. GRANT, Jr.	1903-12
CHAS. L. LOVERING .	1878-83	GEORGE A. AYER .	1904-05
RICHARD GARSED .	1880-81	C. P. BROOKS .	1904-07
WILLIAM H. JENNINGS .	1880-83	CHARLES T. PLUNKETT	1905-07
JOHN W. DANIELSON .	1881-85	ROSCOE S. MILLIKEN .	1905-08
WALTER E. PARKER .	1881-85	WILLIAM H. LOFTUS .	1905-10
WILLIAM E. BARROWS	1882-83	GEORGE OTIS DRAPER .	1906-07
CHAS. D. McDUFFIE .	1883-83	FRANKLIN W. HOBBS .	1906-08
RICHARD B. BORDEN .	1883-86	HENRY F. MANSFIELD .	1906-10
RUFUS A. MAXFIELD .	1883-86	ROBERT BEATTY .	1906-11
GEORGE W. WEEKS .	1883-86	EDWIN F. GREENE .	1907-10
HENRY S. HOWE .	1883-87	JOHN W. KNOWLES .	1907-10
HENRY F. LIPPITT .	1885-88	FREDERICK A. FLATHER	1907-11
O. S. BROWN .	1885-91	JOSEPH MERRIAM .	1908-11
WILBUR A. STILES .	1886-88	DAVID S. JOHNSTON .	1908-12
ROBERT MCARTHUR .	1886-89	FREDERICK B. MACY .	1910-14
STEPHEN N. BOURNE .	1886-91	ALBERT FARWELL BEMIS	1910-16
S. S. SPENCER .	1887-90	RUSSELL B. LOWE .	1910-16
EDWARD W. THOMAS .	1888-92	R. M. MILLER, Jr. .	1910-17
WILLIAM W. WHITIN .	1888-93	WILLIAM AMORY .	1911-14
ROBERT R. SMITH .	1889-92	W. FRANK SHOVE .	1911-16
ALFRED M. GOODALE .	1890-93	WILLIAM N. KIMBALL .	1911-17
HERMAN F. STRAW .	1891-93	ALBERT G. DUNCAN .	1912-13
WILLIAM J. KENT .	1891-94	WILLIAM M. BUTLER .	1912-14
FRED C. McDUFFIE .	1892-95	GROSVENOR ELY .	1913-14
GEORGE W. BEAN .	1892-95	WILLIAM A. MITCHELL	1914-17
FRANK M. MESSENGER	1893-95	ALEXANDER MAKEPEACE	1914-18
ALBERT F. KNIGHT .	1893-99	JOHN SULLIVAN .	1914-18
ARTHUR H. LOWE .	1894-96	PHILIP DANA .	1914-20
HENRY T. WHITIN .	1894-97	HERBERT LYMAN .	1916-19
HERBERT L. PRATT .	1895-98	P. Y. DENORMANDIE .	1916-19
STEPHEN A. KNIGHT .	1895-98	JOHN E. ROUSMANIERE	1916-22
JOHN ECCLES .	1895-99	WILLIAM B. MACCOLL	1917-18

THOMAS H. RENNIE .	1917-19	ARTHUR R. DICKINSON	1923-25
CHARLES L. GILLILAND	1917-20	R. H. I. GODDARD .	1923-25
ALBERT BLUM .	1918-20	RUSSELL H. LEONARD .	1923-24
FREDERICK L. JENCKES	1918-21	JOHN A. SWEETSER .	1923-24
JOHN SKINNER .	1918-22	ANDREW S. WEBB .	1923-26
J. ARTHUR ATWOOD .	1918-24	C. F. BROUGHTON .	1923-
CHARLES B. CHASE .	1918-23	ALBERT G. MASON .	1924-26
LEWIS DEXTER .	1918-23	W. S. PEPPERELL .	1924-
GROSVENOR ELY .	1918-23	W. IRVING BULLARD .	1924-
CHARLES M. HOLMES .	1918-24	JOHN L. BURTON .	1924-
WILLIAM L. LYALL .	1918-23	JOHN S. LAWRENCE .	1924-
JOHN E. MCLOUGHLIN	1919-22	JAMES SINCLAIR .	1924-27
MORGAN BUTLER .	1919-24	E. KENT SWIFT .	1924-
A. W. DIMICK .	1919-24	WILLIAM B. MACCOLL .	1925-25
NATHAN DUFFEE .	1920-22	S. HAROLD GREENE .	1925-
SAMUEL STEWART .	1920-23	JAMES O. THOMPSON, Jr.	1925-
E. KENT SWIFT .	1920-23	DEXTER STEVENS .	1925-
ALLEN F. JOHNSON .	1921-22	ERNEST N. HOOD .	1926-
ALFRED E. COLBY .	1922-27	FRED W. STEELE .	1926-
PHILIP DANA .	1922-27	B. H. BRISTOW DRAPER	1927-
B. H. BRISTOW DRAPER	1922-24	JOHN H. HOLT .	1927-
JOHN A. PERKINS .	1922-	CHARLES E. INCHES .	1927-
JAMES THOMSON .	1922-25		

## AUDITORS

BENJAMIN SAUNDERS .	1865-71	C. E. ROBERTS .	1900-16
JOHN C. PALFREY .	1871-73	BOYDEN & STEACIE .	1916-19
HENRY D. SULLIVAN .	1873-82	F. W. LAFRENTZ & Co.	1919-
J. HERBERT SAWYER .	1882-00		

## SECRETARY AND TREASURER

AMBROSE EASTMAN .	1865-94	C. J. H. WOODBURY .	1894-15
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## SECRETARY

## TREASURER

C. J. H. WOODBURY .	1915-16	CHARLES H. FISH .	1915-16
---------------------	---------	-------------------	---------

## SECRETARY AND TREASURER

CHARLES H. FISH, 1916-17

## SECRETARY

## TREASURER

RUFUS R. WILSON .	1917-21	HERBERT LYMAN .	1917-18
HARRY C. MESERVE .	1921-25	W. IRVING BULLARD .	1918-
RUSSELL T. FISHER .	1925-		

ALPHABETICAL LIST OF MEMBERS  
ACTIVE, ASSOCIATE, HONORARY, JUNIOR TECHNICAL, LIFE,  
SUSTAINING, SUSTAINING REPRESENTATIVES  
AND TECHNICAL  
AS OF JUNE 8, 1928

Ac. — Active	L. — Life
As. — Associate	Tech. — Technical
Hon. — Honorary	Sus. — Sustaining
Jr. Tech. — Junior Technical	
S.R. — Sustaining Representative	
	Elected
<b>Abercrombie, James H.</b>	Ac. Apr. 25, 1907
“Rutland,” Dorking Rd., Reigate, Surrey, Eng.	
<b>Aberfoyle Mfg. Co.</b>	Sus. May 22, 1917
Charles L. Gilliland, Treas., 1530 Bankers Trust Bldg., Philadelphia, Pa.	
<b>Acushnet Mill Corp.</b>	Sus. Nov. 21, 1918
Robert A. Bartlett, Treas., New Bedford, Mass.	
<b>Adam, Alexander E.</b>	Ac. Apr. 30, 1909
Mgr. Canadian Cottons, Ltd., 429 James St., Hamilton, Ontario, Canada.	
<b>Adams, Edwin W.</b>	Ac. Apr. 26, 1928
Lewiston Bleachery & Dye Works, Lewiston, Me.	
<b>Adams, Henry Shaw</b>	Ac. Oct. 4, 1907
Sec.-Treas. The Springstein Mills, P. O. Box 442, Chester, S. C.	
<b>Adams, James A.</b>	Ac. Oct. 27, 1927
Agent, Butler Mill, New Bedford, Mass.	
<b>Adams, Robert J.</b>	Ac. Oct. 18, 1923
Pres. Adams Mfg. Co., 31-33 East 32d St., New York City.	
<b>Adams, William T.</b>	Ac. Feb. 10, 1928
Treas. Adams Bros. Mfg. Co., Adams, Mass.	
<b>Aldrich Brothers Co.</b>	Sus. Jan. 24, 1919
Charles T. Aldrich, Treas., P.O. Box 1134, Providence, R. I.	
<b>Aldrich, Charles T.</b>	Ac. Apr. 28, 1886
Treas. Aldrich Brothers Co., P. O. Box 1134, Providence, R. I.	
<b>Algeo, Bradley C.</b>	Ac. Sept. 21, 1905
Philadelphia Textile School, 320 So. Broad St., Philadelphia, Pa.	
<b>Algonquin Printing Co.</b>	Sus. Nov. 1, 1918
William H. Jennings, Treas., Fall River, Mass.	
<b>Allen, Fred</b>	Ac. June 5, 1925
Asst. Mgr. The Textile Development Co., 80 Federal St., Boston, Mass.	
<b>Allen, G. Bion</b>	Ac. Apr. 27, 1905
Managing Director J. & P. Coats (R. I.), Inc., 117 Mulberry St., Pawtucket, R. I.	
<b>Allen, John E.</b>	Tech. Apr. 16, 1926
The Textile Development Co., 80 Federal St., Boston, Mass.	
<b>Allen, Lewis F.</b>	As. Apr. 28, 1910
Treas. Dinsmore Mfg. Co., Salem, Mass.	



			Elected
<b>American Mfg. Co.</b>		Sus.	Nov. 1, 1917
Francis Lynch, Agent, Victory Mills, N. Y.			
<b>American Printing Co.</b>		Sus.	Jan. 7, 1918
Nathan Durfee, Asst. Treas., Fall River, Mass.			
<b>Ames, Allan W.</b>		As.	May 1, 1924
Bankers Trust Co., 16 Wall St., New York City.			
<b>Ames, John Ormsbee</b>		{ L.	Sept. 21, 1900
Goddard Brothers, 50 So. Main St., Providence, R. I.			Sept. 21, 1905
<b>Amory, Browne &amp; Co.</b>		Sus.	Sept. 18, 1917
Robert Amory, 48 Franklin St., Boston, Mass.			
<b>Amory, Frederic</b>		S.R.	Aug. 11, 1917
Nashua Mfg. Co., 48 Franklin St., Boston, Mass.			
<b>Amory, John Austin</b>		S.R.	Oct. 29, 1918
Geo. H. McFadden & Bro., 211 Congress St., Boston, Mass.			
<b>Amory, Robert</b>		S.R.	Sept. 18, 1917
Amory, Browne & Co., 48 Franklin St., Boston, Mass.			
<b>Anderson, Clayton &amp; Co.</b>		Sus.	June 1, 1923
T. A. Davis, 45 Franklin St., Boston, Mass.			
<b>Anderson, Thomas T.</b>		Ac.	Apr. 16, 1926
Treas. Solway Dyeing & Textile Company, Pawtucket, R. I.			
<b>Anderson, Will B.</b>		As.	May 3, 1918
Mgr. Barber-Colman Co., Framingham, Mass.			
<b>Anderson, William D.</b>		Ac.	Apr. 29, 1915
Pres. Bibb Mfg. Co., Macon, Ga.			
<b>Andres, Eugen C.,</b>		As.	Oct. 18, 1900
Eugen C. Andres Co., 20 Central St., Boston, Mass.			
<b>Andres, Frederick H.</b>		As.	Sept. 30, 1914
Treas. Frederick H. Andres, Inc., 45 Milk St., Boston, Mass.			
<b>Andrews, Harold B.</b>		As.	Apr. 16, 1926
J. P. Rhodes Company, 24 N. Main St., Providence, R. I.			
<b>Androscoggin Mills</b>		Sus.	July 23, 1917
Chas. E. Inches, Treas., 77 Franklin St., Boston, Mass.			
<b>Appleton, William C., Jr.</b>		As.	June 14, 1926
The Viscose Company, 1017 Hospital Trust Bldg., Providence, R. I.			
<b>Armitage, Joshua D.</b>		Ac.	Apr. 26, 1906
Taylor, Armitage & Eagles, Inc., 120 Broadway, New York City.			
<b>Arnold, C. H.</b>		Ac.	Apr. 6, 1928
Supt. Suncook Mills, Suncook, N. H.			
<b>Arnold, E. H.</b>		Ac.	May 4, 1920
Asst. Treas. Greylock Mills, North Adams, Mass.			
<b>Ashland Cotton Co.</b>		Sus.	May 12, 1917
Grosvenor Ely, Pres., Norwich, Conn.			
<b>Ashley, Charles S., Jr.</b>		As.	June 2, 1922
Charles S. Ashley & Sons, 11-15 North Sixth St., New Bedford, Mass.			
<b>Ashworth, Henry</b>		As.	Apr. 28, 1897
Ashworth Brothers, Inc., P. O. Box 776, Fall River, Mass.			
<b>Aspden, Thomas</b>		As.	May 5, 1922
Canadian-Connecticut Cotton Mills, Sherbrooke, Quebec, Can.			
<b>Atkinson, E. W.</b>		Ac.	Oct. 27, 1886
Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.			

		Elected
<b>Atteaux, Frederick E.</b>	As.	Apr. 26, 1917
Pres. Frederick E. Atteaux & Co., Inc., 176 Purchase St., Boston, Mass.		
<b>Atwood, J. Arthur</b>	Ac.	Oct. 28, 1891
Treas. Ponemah Mills, 930 Hospital Trust Bldg., Providence, R. I.		
<b>Ayer, Frederick</b>	Ac.	May 1, 1924
Pres. Tremont & Suffolk Mills, 141 Milk St., Boston, Mass.		
<b>Ayer, Nathaniel F.</b>	Ac.	Apr. 25, 1901
Treas. Nyanza Mills, 77 Franklin St., Boston, Mass.		
<b>Babcock, Frederic L.</b>	S.R.	Apr. 6, 1922
Editor, Fibre & Fabrie, 465 Main St., Cambridge, Mass.		
<b>Baetjer, Howard</b>	Ac.	May 3, 1918
Pres. Mt. Vernon-Woodberry Mills, 506 Continental Bldg., Baltimore, Md.		
<b>Bailey, C. E.</b>	Ac.	Apr. 6, 1925
Manager, Franklin Weaving Company, Box 94, Franklin, Mass.		
<b>Bailey, Harry L.</b>	Ac.	Oct. 2, 1913
Wellington, Sears & Co., 93 Franklin St., Boston, Mass.		
<b>Bailey, Joseph W.</b>	Ac.	Apr. 23, 1903
Agt. Booth Mfg. Company, New Bedford, Mass.		
<b>Baldwin, James</b>	As.	June 14, 1926
Asst. to Treas. Lorraine Mfg. Company, Pawtucket, R. I.		
<b>Baldwin, Luther C.</b>	As.	Sept. 17, 1910
Pres. U. S. Bobbin & Shuttle Co., 57 Eddy St., Providence, R. I.		
<b>Ballard, Joseph W.</b>	S.R.	Jan. 21, 1918
Treas. Griswoldville Mfg. Co., Griswoldville, Mass.		
<b>Ballard, Walter C.</b>	Ac.	Oct. 20, 1917
Treas. Katama Mills, 78 Chauncy St., Boston, Mass.		
<b>Balmer, John T.</b>	Ac.	June 5, 1925
Supt. Merchants Mfg. Company, Fall River, Mass.		
<b>Bancroft, John, Jr.</b>	Ac.	Aug. 3, 1921
Sales Mgr. Joseph Bancroft Sons Co., 290 Broadway, New York City.		
<b>Banks, Jonas</b>	Ac.	Jan. 6, 1928
New England Southern Mills, 24 Federal St., Boston, Mass.		
<b>Bannon, John F.</b>	Ac.	May 3, 1918
Pres. Defiance Bleachery, Barrowsville, Mass.		
<b>Barber-Colman Co.</b>	Sus.	Sept. 10, 1917
Howard D. Colman, Pres., Rockford, Ill.		
<b>Barker, Harold R.</b>	As.	Apr. 26, 1928
O. S. Hawes & Brother, P. O. Box 733, Fall River, Mass.		
<b>Barnard, Elliott H.</b>	Ac.	Apr. 26, 1928
Barnard & Company, 33 Chauncy St., Boston, Mass.		
<b>Barnard Mfg. Co.</b>	Sus.	Nov. 1, 1918
J. Edward Newton, Treas., Fall River, Mass.		
<b>Barnes, Arthur B.</b>	Ac.	Feb. 10, 1928
Supt. Cotton Mills Div., American Printing Co., Fall River, Mass.		
<b>Barnes, Joel M.</b>	As.	Sept. 29, 1911
Barnes Textile Service Co., 101 Milk St., Boston, Mass.		
<b>Barnum, George S.</b>	As.	Apr. 24, 1895
Pres. & Treas. The Bigelow Co., New Haven, Conn.		

			Elected
<b>Barnwell, Elliott H.</b>	Pres. Barnwell & Co., 313 Ohio Bldg., Akron, Ohio.	Ac.	May 3, 1918
<b>Barr, Walwin</b>	6 Odell St., Yonkers, New York.	As.	Apr. 30, 1914
<b>Barrell, William L.</b>	Treas. Lawrence Duck Co., Lawrence, Mass.	Ac.	Apr. 28, 1910
<b>Barrett, D. Emerson</b>	Treas. Maverick Mills, 144 Addison St., East Boston, Mass.	Ac.	Nov. 23, 1925
<b>Barrows, Allan</b>	Treas., Gosnold Mills Co., New Bedford, Mass.	Ac.	July 15, 1922
<b>Bartlett, Edwin N.</b>	Pres. The Edwin Bartlett Co., North Oxford, Mass.	Ac.	Apr. 29, 1891
<b>Bartlett, Robert A.</b>	Treas. Acushnet Mill Corp., New Bedford, Mass.	S.R.	Nov. 21, 1918
<b>Bassett, C. C. Jr.</b>	The Viscose Company, 171 Madison Ave., New York City.	S.R.	Jan. 17, 1927
<b>Batchelder, Nelson A.</b>	Empire Cotton Mills, Ltd., Welland, Ontario, Canada.	Ac.	Sept. 30, 1914
<b>Batchelor, James F.</b>	Supt. Dwight Mfg. Co., Chicopee, Mass.	Ac.	June 8, 1928
<b>Bates, Daniel Moore</b>	Pres. Bates, Inc., 1600 Walnut St., Philadelphia, Pa.	Ac.	Apr. 27, 1898
<b>Bates Mfg. Co.</b>	H. deForest Lockwood, Treas., 60 Congress St., Boston, Mass.	Sus.	Sept. 18, 1917
<b>Bauldry, Lyman C.</b>	Dept. Mgr. The Pairpoint Corp., New Bedford, Mass.	As.	Apr. 5, 1921
<b>Baylies, Lincoln</b>	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac.	June 14, 1926
<b>Baylies, Walter C.</b>	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac.	Oct. 20, 1917
<b>Beacon Mfg. Co.</b>	Charles D. Owen, Treas., New Bedford, Mass.	Sus.	Nov. 7, 1917
<b>Beal, W. DeFord</b>	Cooper & Brush, Inc., 53 State Street, Boston, Mass.	As.	May 1, 1924
<b>Bean, Frank A.</b>	Asst. Agt. American Mfg. Co., Victory Mills, Victory Mills, N. Y.	Ac.	Apr. 6, 1923
<b>Beaver Mills</b>	Gurry Ellsworth Huggins, Pres., 79 Worth St., New York City.	Sus.	Apr. 9, 1918
<b>Beede, Herbert G.</b>	97 Cottage St., Pawtucket, R. I.	Ac.	May 4, 1920
<b>Belamose Corporation, The</b>	Earle L. Milliken, Treas. & Gen. Mgr., Rocky Hill, Conn.	Sus.	May 13, 1927
<b>Bell, Colin C.</b>	National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington, Del.	As.	Apr. 29, 1896
<b>Belland, Harry D.</b>	Supt. Dominion Textile Co., Ltd., Dominion Cottons Branch, Kings Pk., Verdun, Quebec, Can.	Ac.	Mar. 7, 1924
<b>Bemis, Albert Farwell</b>	Chairman, Bemis Bro. Bag Co., 40 Central St., Boston, Mass.	{ L.	Apr. 23, 1903 Apr. 13, 1911

		Elected
<b>Bemis Bro. Bag Co.</b>	Sus.	June 6, 1917
George N. Roberts, Vice Pres., 40 Central St., Boston, Mass.		
<b>Benjamin, Edward B.</b>	Ac.	May 20, 1919
Treas. E. V. Benjamin Co., Maginnis Cotton Mills, New Orleans, La.		
<b>Bennett, E. Howard</b>	As.	Apr. 30, 1914
American Wool & Cotton Reporter, 530 Atlantic Ave., Boston, Mass.		
<b>Berkshire Cotton Mfg. Co.</b>	Sus.	May 12, 1917
Gilbert T. Thompson, Treas., Adams, Mass.		
<b>Best, Edward H.</b>	As.	Apr. 23, 1903
Edward H. Best & Co., P. O. Box 2207, Boston, Mass.		
<b>Billings, Dwight B.</b>	Ac.	Oct. 14, 1926
Pacific Mills, 24 Federal St., Boston, Mass.		
<b>Billington, L. A.</b>	Ac.	Apr. 6, 1925
Agent, Fort Dummer Mills, Brattleboro, Vermont.		
<b>Bishop, Frederick H.</b>	As.	Apr. 26, 1900
Universal Winding Co., 95 South St., Boston, Mass.		
<b>Bishop, Robert</b>	Ac.	Apr. 26, 1906
Treas. Robert Bishop Mfg. Co., 157 W. Sixth St., So. Boston, Mass.		
<b>Biswas, Kshitish Chandra</b>	Jr. Tech.	June 8, 1928
New Bedford Textile School, New Bedford, Mass.		
<b>Blake, Charles R.</b>	Ac.	Sept. 21, 1905
19 Harrison St., Taunton, Mass.		
<b>Blake, Edmund E.</b>	As.	Oct. 2, 1902
Saco-Lowell Shops, Biddeford, Me.		
<b>Blake, Francis P.</b>	As.	May 3, 1921
Bay State Belting Co., 349 Congress St., Boston, Mass.		
<b>Blanchard, Fessenden S.</b>	Ac.	Oct. 5, 1920
Asst. to Treas. Pacific Mills, 24 Federal St., Boston, Mass.		
<b>Blum, Albert</b>	S.R.	Feb. 12, 1918
Treas. United Piece Dye Wks., Lodi, N. J.		
<b>Boardman, Richard</b>	Ac.	Sept. 11, 1912
Supt. Osborn Mills, Fall River, Mass.		
<b>Bogert, Theodore P.</b>	As.	Apr. 13, 1911
Sec. Mfrs. Mut. Fire Ins. Co., Providence, R. I.		
<b>Bolinger, John</b>	As.	Dec. 12, 1918
Vice Pres. National Shawmut Bank, Boston, Mass.		
<b>Bolton, Wright, Jr.</b>	Ac.	April 15, 1927
Acushnet Mill Corp., New Bedford, Mass.		
<b>Booth, Joseph W.</b>	Ac.	Apr. 25, 1907
Supt. Auburn Woolen Co., Auburn, N. Y.		
<b>Boott Mills</b>	Sus.	July 17, 1917
Frederick A. Flather, Treas., Lowell, Mass.		
<b>Borden, Bertram H.</b>	Ac.	May 3, 1918
Pres. American Printing Co., P. O. Box 1194, City Hall Sta., New York City.		
<b>Borden, Charles N.</b>	Ac.	Apr. 25, 1907
Treas. Richard Borden Mfg. Co., Fall River, Mass.		
<b>Borden, Jefferson, Jr.</b>	Ac.	May 3, 1918
Fall River Bleachery, Fall River, Mass.		
<b>Borden, Richard Mfg. Co.</b>	Sus.	July 17, 1917
Charles N. Borden, Treas., Fall River, Mass.		

	Elected	
<b>Borden, Spencer, Jr.</b> Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass.	Ac.	Apr. 27, 1916
<b>Boston Mfg. Co.</b> James H. Whitehead, Treas., 48 Franklin St., Boston, Mass.	Sus.	May 31, 1917
<b>Bourne Mills</b> George Delano, Treas., Fall River, Mass.	Sus.	May 1, 1920
<b>Boutelle, Eugene G.</b> Lybrand Ross Bros. & Montgomery, 80 Federal St., Boston, Mass.	As.	July 30, 1926
<b>Bowen, Amos Miller</b> Treas. U. S. Ring Traveler Co., 159 Aborn St., Providence, R. I.	As.	Apr. 6, 1923
<b>Bowen, Elmer L.</b> Agt. Appleton Co., Anderson, S. C.	Ac.	Oct. 29, 1918
<b>Bowler, Laurence R.</b> 77 Franklin St., Boston, Mass.	Ac.	June 1, 1923
<b>Bowne, Garrett D., Jr.</b> Westinghouse Elec. & Mfg. Co., 10 High St., Boston, Mass.	As.	Apr. 29, 1911
<b>Boyd, Forest W.</b> Nyanza Mills, Woonsocket, R. I.	Ac.	Oct. 27, 1927
<b>Boyd, George A.</b> Treas. Appleton Co., P. O. Box 2284, Boston, Mass.	Ac.	May 3, 1920
<b>Boyd, John Schofield</b> John S. Boyd Co., Water St., Williamstown, Mass.	Ac.	Sept. 23, 1909
<b>Boyd, William V.</b> Mgr. Canadian Cottons, Ltd., Cornwall, Ontario, Canada.	Ac.	Apr. 26, 1906
<b>Boys, Robert W.</b> Supt. Cotton Division, Farr Alpaca Company, Holyoke, Mass.	Ac.	June 14, 1926
<b>Bradbury, James W.</b> The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	Apr. 16, 1926
<b>Bradbury, Thomas</b> Supt. Wamsutta Mills, New Bedford, Mass.	Ac.	May 3, 1918
<b>Bradley, Walter H.</b> Treas. Hill Mfg. Company, 89 State St., Boston, Mass.	Ac.	Apr. 28, 1910
<b>Bradstreet, Harry S.</b> Harry S. Bradstreet, Inc., 201 Devonshire St., Boston, Mass.	As.	Oct. 14, 1926
<b>Brady, Chas. E.</b> Treas. Potomska Mills Corp., New Bedford, Mass.	S.R.	Nov. 21, 1918
<b>Brady, Frank A.</b> Supt. Stevens Mfg. Co., 914 Rock St., Fall River, Mass.	Ac.	Oct. 20, 1917
<b>Bragdon, Lord &amp; Nagle Co., Inc.</b> Henry G. Lord, Pres., 65 Franklin St., Boston, Mass.	Sus.	Mar. 1, 1918
<b>Brayton, Frank L.</b> Sales Mgr. Fitchburg Yarn Co., Fitchburg, Mass.	Ac.	Nov. 13, 1924
<b>Brayton, Israel</b> Treas. Lincoln Mfg. Co., Fall River, Mass.	S.R.	July 30, 1917
<b>Brierley, Joseph H.</b> Wm. H. Lorimer & Sons Co., Ontario and Lawrence Sts., Philadelphia, Pa.	Ac.	Sept. 21, 1905
<b>Briggs, George T.</b> Pres. & Gen. Mgr. The Briggs Mfg. Co., Voluntown, Conn.	Ac.	Apr. 24, 1902
<b>Brightman, Donald J.</b> Asst. to Mgr. The Ninigret Co., 32 Central Ave., Pawtucket, R. I.	Ac.	June 1, 1923

		Elected	
<b>Brighton Mills</b>		Sus.	July 25, 1917
William L. Lyall, Chairman of Board, Passaic, N. J.			
<b>Broadbent, James T.</b>		Ac.	Apr. 28, 1904
Pres. & Gen. Mgr. Standard Textile Products Co., 320 Broadway, New York City.			
<b>Bromley, Ernest</b>		Ac.	Apr. 28, 1910
Agt. Whitman Mills, New Bedford, Mass.			
<b>Bromley, Joseph H.</b>		Ac.	Sept. 21, 1905
Chairman, Quaker Lace Co., Philadelphia, Pa.			
<b>Brooks, Clarence B.</b>		Ac.	May 13, 1927
Vice Pres. Utica Steam and Mohawk Valley Cotton Mills, Chad- wicks, N. Y.			
<b>Broughton, C. F.</b>		Ac.	Oct. 20, 1917
Treas. Wamsutta Mills, New Bedford, Mass.			
<b>Brown, Charles N.</b>		Ac.	Oct. 29, 1918
Pres. & Treas. The Lincoln Cotton Mill Co., Evansville, Ind.			
<b>Brown, Frederick R.</b>		Ac.	Sept. 21, 1925
Du Pont Rayon Company, Park Ave. Bldg., New York City.			
<b>Brown, George G.</b>		As.	Dec. 27, 1918
Treas. The David Brown Co., Foster & Market Sts., Lawrence, Mass.			
<b>Brown, M. R.</b>		S.R.	Aug. 12, 1918
Treas. Davol Mills, Fall River, Mass.			
<b>Brown, Stuart F.</b>		As.	Mar. 2, 1922
Agt. Whitinsville Spinning Ring Co., Whitinsville, Mass.			
<b>Bryant, Fred C.</b>		As.	May 1, 1924
Curtis & Marble Machine Co., 200 Fifth Ave., New York City.			
<b>Buckley, Charles E.</b>		Ac.	Apr. 26, 1917
Supt. Gosnold Mills Co., 24 Jenny Lind St., New Bedford, Mass.			
<b>Buckley, William H.</b>		Ac.	Apr. 30, 1909
Mfg. Agt. The Baltic Mills Co., Baltic, Conn.			
<b>Bucklin, Harris H.</b>		S.R.	Oct. 29, 1918
Asst. Treas. Interlaken Mills, Phenix, R. I.			
<b>Budlong, Frederick R.</b>		Ac.	Apr. 24, 1923
Supt. Coventry Co., Anthony, R. I.			
<b>Bullard, W. Irving</b>		Ac.	Sept. 11, 1912
80 Federal St., Room 1042, Boston, Mass.			
<b>Bunker, Gordon</b>		Ac.	Oct. 14, 1926
H. M. Bunker & Co., 56 Worth St., New York City.			
<b>Burgess, Robert</b>		Ac.	Apr. 27, 1892
3 Bradford Court, Newton Centre, Mass.			
<b>Burnham, Alfred H.</b>		Ac.	Apr. 26, 1900
P. O. Box 38, Station F, Baltimore, Md.			
<b>Burnham, Hervey</b>		Ac.	Apr. 27, 1899
P. O. Box 503, Suncook, N. H.			
<b>Burns, Alfred</b>		Ac.	Oct. 29, 1918
Asst. Supt. West Boylston Mfg. Co., Easthampton, Mass.			
<b>Burns, William H.</b>		Jr. Tech.	Jan. 17, 1927
19 Buckley St., Fall River, Mass.			
<b>Burton, Harry H.</b>		Ac.	June 14, 1926
Agt. Slater Mills, Inc., Webster, Mass.			
<b>Burton, John L.</b>		Ac.	Apr. 23, 1903
Agt. Nashawena Mills, New Bedford, Mass.			

		Elected	
<b>Butler, Arthur Cecil</b>	As.	Apr. 28, 1904	
Leigh & Butler, 232 Summer St., Boston, Mass.			
<b>Butler Mill</b>	Sus.	Oct. 6, 1921	
Morgan Butler, Treas., 77 Franklin St., Boston, Mass.			
<b>Butler, Morgan</b>	Ac.	Apr. 30, 1914	
Treas. Butler Mill, 77 Franklin St., Boston, Mass.			
<b>Butler, Obadiah</b>	Ac.	Sept. 13, 1906	
Connecticut Mills Co., Danielson, Conn.			
<b>Butler, William M.</b>	Ac.	Apr. 28, 1910	
Pres. Butler Mill, 77 Franklin St., Boston, Mass.			
<b>Butterworth, Harry W.</b>	As.	Oct. 28, 1897	
Pres. H. W. Butterworth & Sons Co., York & Cedar Sts., Philadelphia, Pa.			
<b>Butterworth, H. W., &amp; Sons Co.</b>	Sus.	Sept. 12, 1917	
Harry W. Butterworth, Pres., Philadelphia, Pa.			
<b>Butterworth, Samuel T.</b>	Ac.	Sept. 21, 1905	
Agt. The Lawton Mills Corp., Plainfield, Conn.			
<b>Buxton, G. Edward</b>	Ac.	Apr. 24, 1923	
Pres. B. B. & R. Knight Corp., 715 Hospital Trust Bldg., Providence, R. I.			
<b>Buzzell, William O.</b>	Ac.	Oct. 27, 1927	
Agt. Wamsutta Mills, New Bedford, Mass.			
<b>Cadwell, William H.</b>	Ac.	Apr. 26, 1900	
Agt. Nashua Mfg. Co., Jackson Mill, Nashua, N. H.			
<b>California Cotton Mills Co.</b>	Sus.	Feb. 8, 1921	
J. R. Millar, Gen. Mgr., Oakland, Calif.			
<b>Campbell, N. S.</b>	Ac.	Apr. 16, 1926	
Treas. National Rhea Co., 1015 Hospital Trust Bldg., Providence, R. I.			
<b>Carpenter, Chester W.</b>	Ac.	May 1, 1924	
Agt. John Farnum Co., Lancaster, Pa.			
<b>Carpenter, Frank L.</b>	Ac.	May 3, 1918	
Treas. Davis Mills, Fall River, Mass.			
<b>Carpenter, Lewis M.</b>	Ac.	Apr. 7, 1919	
Treas. Ashland Cotton Co., Jewett City, Conn.			
<b>Cartledge, Francis J.</b>	Ac.	Nov. 10, 1922	
Durham Hosiery Mills, Durham, N. C.			
<b>Catterall, John</b>	Ac.	Apr. 16, 1926	
Agt. New Bedford Spinning Company, New Bedford, Mass.			
<b>Chace, Arnold B.</b>	Ac.	Apr. 26, 1906	
Treas. Valley Falls Co., Albion, R. I.			
<b>Chace, Benjamin C.</b>	Ac.	Sept. 21, 1905	
Gen. Mgr. Crown Mfg. Co., Pawtucket, R. I.			
<b>Chace, Richard B.</b>	S.R.	Dec. 3, 1918	
Treas. Shawmut Mills, Fall River, Mass.			
<b>Chapman, Laurance D.</b>	S.R.	Mar. 7, 1924	
Asst. Treas. Hill & Cutler Co., New Bedford, Mass.			
<b>Chapman, Robert</b>	Ac.	Apr. 13, 1911	
Pres. Cherew Cotton Mills, Inc., Cherew, S. C.			
<b>Charlton Mills</b>	Sus.	Jan. 14, 1919	
James Sinclair, Treas., Fall River, Mass.			

		Elected
<b>Chase, Charles A.</b>	As.	June 2, 1922
Mgr. Industrial Dept., General Electric Co., 84 State St., Boston, Mass.		
<b>Chase, Charles B.</b>	Ac.	Apr. 17, 1908
Gen. Mgr. Stevens Mfg. Co., P. O. Box 45, Fall River, Mass.		
<b>Chase, Fred L.</b>	As.	Mar. 2, 1923
F. A. Chase & Co., 253 West Exchange St., Providence, R. I.		
<b>Chase, Simeon B.</b>	Ac.	Apr. 21, 1875
Treas. King Philip Mills, Fall River, Mass.		
<b>Chicopee Mfg. Corp.</b>	Sus.	Sept. 12, 1917
Charles A. McCormick, Treas., New Brunswick, N. J.		
<b>Chidsey, John T.</b>	As.	June 15, 1923
Pres. & Treas. The Root Co., Church St., Bristol, Conn.		
<b>Church, B. LeBaron</b>	Ac.	Nov. 13, 1924
Sales Mgr. New Bedford Cotton Waste Co., 43 Church St., New Bedford, Mass.		
<b>City Mfg. Corp.</b>	Sus.	July 17, 1917
John B. Strongman, Treas., New Bedford, Mass.		
<b>Clark, Avery B.</b>	Ac.	Apr. 27, 1905
Supt. Merrimack Mfg. Co., Lowell, Mass.		
<b>Clark, George P.</b>	Ac.	Apr. 16, 1926
Pres. Columbia Narrow Fabric Co., Shannock, R. I.		
<b>Clayton, William L.</b>	{ L.	June 1, 1923 June 1, 1923
Anderson, Clayton & Co., Houston, Tex.		
<b>Clextion, Thomas J.</b>	As.	Sept. 13, 1906
Mgr. A. Klipstein & Co., 285 Congress St., Boston, Mass.		
<b>Coates, J. &amp; P. (R. I.), Inc.</b>	Sus.	Oct. 27, 1927
G. Bion Allen, Managing Dir., Pawtucket, R. I.		
<b>Coates, Wallace B., Jr.</b>	Ac.	May 3, 1918
Agt. Farwell Bleachery, North Andover, Mass.		
<b>Cobb, F. S.</b>	Ac.	June 5, 1925
Pres. Seamans & Cobb Thread Co., Hopkinton, Mass.		
<b>Cobb, W. C.</b>	Ac.	Apr. 26, 1906
Supt. Ware Shoals Mfg. Co., Ware Shoals, S. C.		
<b>Coburn, James E.</b>	Ac.	Oct. 4, 1907
Agt. Androscoggin Mills, Lewiston, Me.		
<b>Coffin, Langdon</b>	Ac.	Sept. 29, 1911
Purchasing Agt. Samson Cordage Wks., 144 Bellevue Ave., Newton, Mass.		
<b>Coffin, Melvin H.</b>	As.	Oct. 2, 1902
National Ring Traveler Co., Providence, R. I.		
<b>Colby, Alfred E.</b>	Ac.	Apr. 6, 1922
Asst. Treas. Pacific Mills, 24 Federal St., Boston, Mass.		
<b>Coleman, Philip F.</b>	S.R.	Oct. 5, 1923
Sec. John Farnum Co., Philadelphia, Pa.		
<b>Collins, John A.</b>	Ac.	Apr. 6, 1928
Supt. Suncook Mills, Suncook, N. H.		
<b>Colman, Howard D.</b>	As.	Apr. 27, 1905
Pres. Barber-Colman Co., Rockford, Ill.		
<b>Colquhoun, M. W.</b>	Ac.	Aug. 3, 1921
Box 1587, Boston, Mass.		



		Elected	
<b>Comins, Frank B.</b>	Gen. Mgr. American Moistening Co., 79 Milk St., Boston, Mass.	Ac.	Oct. 28, 1891
<b>Cook, Albion C.</b>	Treas. Wampanoag Mills, Fall River, Mass.	Ac.	Nov. 10, 1922
<b>Cook, Edward H.</b>	Treas. Quissett Mills, New Bedford, Mass.	Ac.	Apr. 28, 1910
<b>Cook, G. Arthur</b>	Asst. West Boylston Mfg. Co., 265 Main St., Easthampton, Mass.	Ac.	Apr. 25, 1907
<b>Cook, Kenneth B.</b>	Manville Jenckes Co., Pawtucket, R. I.	As.	July 15, 1922
<b>Cooley, Fred A.</b>	Supt. Atlantic Mills, 112 Warrington St., Providence, R. I.	Ac.	Apr. 30, 1909
<b>Coolidge, Amory</b>	Asst. Treas. Pepperell Mfg. Co., P. O. Box 5075, Boston, Mass.	Ac.	Oct. 14, 1925
<b>Coon, J. L.</b>	Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.	As.	May 3, 1918
<b>Cooper, Archie C.</b>	Sales Dir. Oliver Johnson & Co., Inc., New Bedford, Mass.	As.	Oct. 27, 1927
<b>Cooper, James A.</b>	Whitin Machine Works, Whitinsville, Mass.	As.	Sept. 13, 1906
<b>Cooper, James M.</b>	30 Stillwater Ave., Providence, R. I.	Jr. Tech.	Jan. 17, 1927
<b>Corn Products Refining Co.</b>	Charles P. Slocum, 47 Farnsworth St., Boston, Mass.	Sus.	Mar. 2, 1918
<b>Cornell Mills</b>	Robert W. Zuill, Treas., Fall River, Mass.	Sus.	July 20, 1918
<b>Corr, Peter H.</b>	Treas. Greenwich Bleachery, Taunton, Mass.	Ac.	Apr. 24, 1895
<b>Cottrell, B. S.</b>	Parks-Cramer Co., 1102 Old South Bldg., Boston, Mass.	As.	May 3, 1918
<b>Couper, Archibald W.</b>	Agt. Paul Whitin Mfg. Co., Rockdale Mills, Northbridge, Mass.	Ac.	Oct. 29, 1918
<b>Covel, Thomas D.</b>	Pres. The Covel & Osborne Co., Fall River, Mass.	Ac.	Apr. 26, 1906
<b>Cowell, Richard</b>	Agt. Greylock Mills, A. B. C., 33 Southworth Ave., Williamstown, Mass.	Ac.	Apr. 24, 1902
<b>Coxen, Harold M.</b>	Hoosac Cotton Mills, North Adams, Mass.	S.R.	Feb. 21, 1918
<b>Cramer, Stuart W.</b>	Pres. Cramerton Mills, Inc., Cramerton, N. C.	Ac.	Apr. 26, 1906
<b>Cranska, Lucius B.</b>	Pres. The Floyd Cranska Thread Co., Moosup, Conn.	Ac.	Sept. 21, 1905
<b>Crawford, Dana R.</b>	Sales Agt. U. S. Bobbin & Shuttle Co., 57 Eddy St., Providence, R. I.	As.	Oct. 14, 1925
<b>Crocker, Paul E.</b>	Controller, Pepperell Mfg. Co., 160 State St., Boston, Mass.	Ac.	Jan. 17, 1927
<b>Crompton &amp; Knowles Loom Works</b>	Homer Gage, Pres., Worcester, Mass.	Sus.	July 20, 1918
<b>Cronkhite, W. W.</b>	General Electric Co., Schenectady, N. Y.	S.R.	May 24, 1917

		Elected
<b>Crowley, Stephen H.</b>	Ac.	Aug. 10, 1927
Asst. Gen. Mgr. Lewiston Bleachery & Dye Works, Lewiston, Me.		
<b>Crown Mfg. Co.</b>	Sus.	Oct. 10, 1918
Benjamin C. Chace, Gen. Mgr., Pawtucket, R. I.		
<b>Cummings, Stanley R.</b>	As.	Mar. 7, 1924
Research Engr. The Hoover Co., North Canton, Ohio		
<b>Cumnock, John</b>	Ac.	Apr. 30, 1914
Gen. Mgr. Altavista Cotton Mills, Altavista, Va.		
<b>Cunningham, George C.</b>	Ac.	Apr. 6, 1922
Treas. Indian Head Mills of Alabama, 48 Franklin St., Boston, Mass.		
<b>Currier, Andrew J.</b>	Ac.	Apr. 25, 1888
66 Broad St., Valley Falls, R. I.		
<b>Curtis &amp; Marble Machine Co.</b>	Sus.	Apr. 8, 1919
Edwin H. Marble, Pres., Worcester, Mass.		
<b>Cutter, John</b>	Ac.	June 5, 1925
Amory, Browne & Co., 48 Franklin St., Boston, Mass.		
<b>Dana, Luther</b>	Ac.	Apr. 30, 1914
Pres. Dana Warp Mills, Westbrook, Me.		
<b>Dana, Philip</b>	Ac.	Sept. 29, 1898
Treas. Dana Warp Mills, 347 Brown St., Westbrook, Me.		
<b>Dana Warp Mills</b>	Sus.	May 12, 1917
Philip Dana, Treas., Westbrook, Me.		
<b>Daniels, F. G.</b>	Ac.	Apr. 17, 1908
Gen. Mgr. Dominion Textile Co., Ltd., 710 Victoria Sq., Montreal, Quebec, Canada.		
<b>Danker, Daniel J.</b>	{	Apr. 28, 1904
73 Dean Rd., Brookline, Mass.		{ L. Apr. 25, 1907
<b>Davis, Edward H.</b>	Ac.	Apr. 6, 1923
Lawrence & Co., 24 Thomas St., New York City.		
<b>Davis Mills</b>	Sus.	July 20, 1917
Frank L. Carpenter, Treas., Fall River, Mass.		
<b>Davis, Poncet</b>	As.	June 1, 1923
Pres. Poncet Davis Co., 226 Ohio Bldg., Akron, Ohio.		
<b>Davis, T. A.</b>	S.R.	June 1, 1923
Anderson, Clayton & Co., 45 Franklin St., Boston, Mass.		
<b>Davol Mills</b>	Sus.	Aug. 12, 1918
M. R. Brown, Treas., Fall River, Mass.		
<b>Dawson, Arthur O.</b>	Ac.	Oct. 4, 1907
Vice Pres. Canadian Cottons, Ltd., 28 Victoria Sq., Montreal, Quebec, Canada.		
<b>Day, Morgan G.</b>	Ac.	May 3, 1921
Asst. Agt. Indian Orchard Co., Indian Orchard, Mass.		
<b>Dean, Milton O.</b>	Ac.	Dec. 1, 1921
Agt. Edwards Mfg. Co., Augusta, Me.		
<b>Deering, Henry G.</b>	As.	Apr. 15, 1927
Crompton & Knowles Loom Works, 241 Harris Ave., Providence, R. I.		
<b>Deering, Milliken &amp; Co., Inc.</b>	Sus.	Nov. 26, 1919
79 Leonard St., New York City.		

		Elected	
<b>De Forest, George</b>	Ac.	Oct. 28, 1897	
Pres. Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.			
<b>Delano, Arthur D.</b>	As.	May 5, 1919	
Treas. Manufacturers' Supply Co., 382 Aenshnet Ave., New Bedford, Mass.			
<b>Delano, George</b>	S.R.	May 1, 1920	
Treas. Bourne Mills, Fall River, Mass.			
<b>Denham, J. S.</b>	S.R.	Mar. 4, 1927	
Sales Mgr. Du Pont Rayon Company, 2 Park Ave., New York City.			
<b>DeNormandie, P. Y.</b>	Ac.	Apr. 29, 1896	
Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.			
<b>Dexter, Charles</b>	Ac.	May 13, 1927	
Rumford Textile Co., Phillipsdale, R. I.			
<b>Dexter, Henry C.</b>	Ac.	Apr. 25, 1901	
Sales Agt. Fales & Jenks Machine Co., Pawtucket, R. I.			
<b>Dick, Evans, Jr.</b>	S.R.	June 14, 1926	
Dick, Geary & Lancaster, 37 Pearl St., Boston, Mass.			
<b>Dick, Geary &amp; Lancaster</b>	Sus.	June 14, 1926	
Evans Dick, Jr., 37 Pearl St., Boston, Mass.			
<b>Dillon, Frederick N.</b>	As.	Sept. 22, 1904	
D. M. Dillon Steam Boiler Wks., Fitchburg, Mass.			
<b>Dimick, A. W.</b>	S.R.	Sept. 10, 1918	
Treas. Grosvenor-Dale Co., No. Grosvenor-Dale, Conn.			
<b>Dineen, John J.</b>	Ac.	Apr. 30, 1914	
Supt. La Tosca Yarn Mill, Utica, N. Y.			
<b>Dixon, Ezra</b>	As.	Sept. 21, 1905	
Pres. Dixon Lubricating Saddle Co., Bristol, R. I.			
<b>Dodd, H. C.</b>	Ac.	Oct. 5, 1922	
Treas. Thomas Henry & Sons, Inc., P. O. Box 4720, Sta. E., Philadelphia, Pa.			
<b>Dodge, Linsley V.</b>	Ac.	Apr. 16, 1926	
Asst. Treas. W. C. Plunkett & Sons Co., Adams, Mass.			
<b>Dolphin, Joseph</b>	Ac.	May 3, 1918	
Mgr. Canadian Cottons, Ltd., Marysville, New Brunswick, Canada.			
<b>Donelan, Thomas E.</b>	Ac.	Feb. 2, 1922	
Gen. Mgr. Greenwich Bleachery, So. Main St., E. Greenwich, R. I.			
<b>Dooley, John S.</b>	As.	Feb. 14, 1919	
William J. Dooley & Co., 60 Congress St., Boston, Mass.			
<b>Douty, Daniel E.</b>	Ac.	Oct. 2, 1913	
Vice Pres. and Gen. Mgr. U. S. Testing Co., Inc., 1415 Park Ave., Hoboken, N. J.			
<b>Dow, Robert</b>	Ac.	Apr. 25, 1901	
Treas. Solway Dyeing & Textile Co., Pawtucket, R. I.			
<b>Downer, Arthur T.</b>	As.	June 1, 1923	
Pres. New England Laundries, Inc., Converse Pl., Winchester, Mass.			
<b>Draper, Arthur J.</b>	Ac.	Apr. 23, 1903	
Pres. Iccormorlee Cotton Mills, Monroe, N. C.			
<b>Draper, B. H. Bristow</b>	{ L.	Apr. 24, 1913 May 7, 1913	
Treas. Draper Corporation, Hopedale, Mass.			
<b>Draper Corp.</b>	Sus.	Aug. 10, 1917	
B. H. Bristow Draper, Treas., Hopedale, Mass.			

			Elected
<b>Dresser, Henry C.</b>	Agt. Beaver Mills, North Adams, Mass.	Ac.	Apr. 27, 1905
<b>Duckworth, Harry S.</b>	Gen. Agt. Cranston Print Works Co., Cranston, R. I.	Ac.	Apr. 17, 1908
<b>Duff, John</b>	David Duff & Son, New Bedford, Mass.	As.	Apr. 28, 1910
<b>Duffy, Walter F.</b>	Pres. & Treas. Acme Ball Bearing Spindle Corp., Franklin, N. H.	As.	Nov. 21, 1927
<b>Dumaine, Frederic C.</b>	Treas. Amoskeag Mfg. Co., P. O. Box 5228, Boston, Mass.	Ac.	Apr. 25, 1901
<b>Duncan, David</b>	Asst. to Agents, Lonsdale Co., 50 South Main St., Providence, R. I.	Ac.	Jan. 11, 1926
<b>Dunlap, F. Lincoln</b>	Supt. Wampanoag Mills, 69 Alden St., Fall River, Mass.	Ac.	Feb. 2, 1923
<b>Du Pont de Nemours, E. I. &amp; Co., Inc.</b>	R. S. Lunt, 274 Franklin St., Boston, Mass.	Sus.	Oct. 27, 1927
<b>Du Pont Rayon Company</b>	J. S. Denham, Sales Mgr., 2 Park Ave., New York City.	Sus.	Mar. 4, 1927
<b>Durfee, Nathan</b>	Asst. Treas. American Printing Co., Fall River, Mass.	Ac.	Apr. 27, 1916
<b>Durfee, Randall N., Jr.</b>	Pepperell Mfg. Co., 160 State St., Boston, Mass.	Ac.	Oct. 27, 1927
<b>Dutcher, Frank J.</b>	Pres. Draper Corp., Hopedale, Mass.	Ac.	Apr. 24, 1902
<b>Dwight Mfg. Co.</b>	George Nichols, Treas., 53 State St., Boston, Mass.	Sus.	Dec. 5, 1918
<b>Eames, Charles H.</b>	Pres. Lowell Textile School, Lowell, Mass.	Ac.	Apr. 25, 1907
<b>Earle, Frederic E.</b>	Pres. & Treas. F. E. Earle Co., P. O. Box 804, New Bedford, Mass.	As.	Apr. 6, 1923
<b>Earle, G. Kenneth</b>	Pres. G. Kenneth Earle Co., 4 Market Sq., Providence, R. I.	As.	July 10, 1925
<b>Easton, Frederic W.</b>	Pres. Wapoyset Mfg. Co., 180 Weeden St., Pawtucket, R. I.	Ac.	Apr. 25, 1910
<b>Eastwood, Benjamin, Jr.</b>	Sec. Benjamin Eastwood Co., 300 Straight St., Paterson, N. J.	Ac.	Apr. 13, 1911
<b>Eaton, Clarence W.</b>	C. W. Eaton & Co., P. O. Box 438, New Bedford, Mass.	As.	May 13, 1927
<b>Eddy, Jesse P.</b>	Treas. Tillinghast, Stiles Co., P. O. Box 1522, Providence, R. I.	Ac.	Sept. 21, 1905
<b>Eddy, John D.</b>	190 Winter St., Fall River, Mass.	Ac.	Apr. 27, 1916
<b>Edwards, D. F.</b>	Pres. Saco-Lowell Shops, 147 Milk St., Boston, Mass.	S.R.	May 18, 1917
<b>Ely, Grosvenor</b>	Treas. Ashland Cotton Co., Norwich, Conn.	Ac.	Sept. 30, 1908
<b>Ely, Lloyd C.</b>	The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	June 8, 1928
<b>Emery, Arthur L.</b>	Aragon Baldwin Company, Rock Hill, S. C.	Ac.	Apr. 5, 1921

		Elected
<b>Erhard, George P.</b>	Pres. The Stafford Co., Readville, Mass.	S.R. Apr. 1, 1918
<b>Erwin, William A.</b>	Treas. Erwin Cotton Mills, West Durham, N. C.	Ac. Sept. 29, 1911
<b>Esmond Mills, The</b>	Dexter Stevens, Mgr., Esmond, R. I.	Sus. Nov. 14, 1918
<b>Estes, George H.</b>	Asst. Agt. Continental Mills, P. O. Box 427, Lewiston, Me.	Ac. May 5, 1922
<b>Everett, Henry C., Jr.</b>	Treas. Winnsboro Mills, 24 Federal St., Boston, Mass.	Ac. Sept. 15, 1916
<b>Everett, James R.</b>	Vice Pres. & Gen. Mgr. Wonalancet Co., Nashua, N. H.	S.R. Mar. 15, 1918
<b>Fabyan, Francis W.</b>	Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.	Ac. Sept. 29, 1911
<b>Fales, J. Richmond</b>	Vice Pres. Fales & Jenks Machine Co., Pawtucket, R. I.	As. Apr. 24, 1923
<b>Farlow, John S.</b>	Asst. Treas. Whittenton Mfg. Co., 50 State St., Boston, Mass.	S.R. Jan. 30, 1925
<b>Farnum, John, Co.</b>	Philip F. Coleman, Sec., Philadelphia, Pa.	Sus. Oct. 5, 1923
<b>Farrell, J. E.</b>	Supt. West Boylston Mfg. Co., Easthampton, Mass.	Ac. June 6, 1924
<b>Faunce, Vernon C.</b>	Gen. Supt. Bates Mfg. Co., Lewiston, Me.	Ac. Apr. 17, 1908
<b>Ferguson, Alfred L.</b>	Vice Pres. Consolidated Textile Corp., 88 Worth St., New York City.	Ac. Oct. 4, 1907
<b>Ferguson, J. C.</b>	Gen. Mgr. Eclipse Textile Co., Inc., Elmira, N. Y.	As. May 3, 1921
<b>Ferguson, James T.</b>	Agt. Warwick Mills, Centreville, R. I.	Ac. Oct. 5, 1899
<b>Ferguson, John W.</b>	152 Market St., Paterson, N. J.	As. Apr. 24, 1895
<b>Ferrier, William</b>	102 Henry Ave., Lynn, Mass.	Ac. Apr. 6, 1922
<b>Fibre &amp; Fabric</b>	Frederic L. Babcock, Editor, 465 Main St., Cambridge, Mass.	Sus. Apr. 6, 1922
<b>Field, Frank S.</b>	Asst. Treas. Massacmet Yarn Mills, Shattuckville, Mass.	{ L. Oct. 25, 1895 Apr. 27, 1916
<b>Filley, Frank H.</b>	Vice Pres. American Mfg. Co., Noble and West Sts., Brooklyn, N. Y.	Ac. Sept. 30, 1914
<b>Fingerhut, Charles F.</b>	Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. May 13, 1927
<b>First National Bank of Boston</b>	Charles F. Mills, Vice Pres., 67 Milk St., Boston, Mass.	Sus. Oct. 27, 1927
<b>Fish, Charles H.</b>	California Club, Los Angeles, Calif.	{ L. Apr. 27, 1887 Apr. 28, 1904
<b>Fisher, Andrew</b>	Fibre & Fabric, 465 Main St., Cambridge, Mass.	Ac. Apr. 28, 1910
<b>Fisher, James D.</b>	P. T. Jackson Co., 41 Pearl St., Boston, Mass.	As. Apr. 15, 1927

		Elected
<b>Fisher, Robert H.</b>	Ac.	Apr. 15, 1927
Du Pont Rayon Company, 941 Hospital Trust Bldg., Providence, R. I.		
<b>Fisher, Stuart D.</b>	Ac.	July 10, 1925
Supt. Westerly Branch, Lorraine Mfg. Co., Westerly, R. I.		
<b>Fitchburg Yarn Co.</b>	Sus.	Nov. 1, 1918
R. S. Wallace, Treas., Fitchburg, Mass.		
<b>Flather, Frederick A.</b>	{ L.	Apr. 29, 1891
Treas. Boott Mills, 79 Milk St., Boston, Mass.		Apr. 17, 1908
<b>Flather, Frederick</b>	{ L.	May 1, 1924
Boott Mills, Lowell, Mass.		May 1, 1924
<b>Flather, John Rogers</b>	{ L.	May 1, 1924
Boott Mills, Lowell, Mass.		May 1, 1924
<b>Fletcher, Harry</b>	As.	Oct. 27, 1927
Oliver Johnson & Co., Inc., 18 Custom House St., Providence, R. I.		
<b>Flynn, George D.</b>	Ac.	June 14, 1926
Asst. Treas. The Ancona Co., Fall River, Mass.		
<b>Forestdale Mfg. Co.</b>	Sus.	Jan. 23, 1919
Forestdale, R. I.		
<b>Forsaith, Charles Henry</b>	Ac.	Oct. 14, 1925
Supt. Jackson Mill of Nashua Mfg. Co., Nashua, N. H.		
<b>Fort Dummer Mills</b>	Sus.	Nov. 15, 1918
John McMahon, Treas., 24 N. Main St., Providence, R. I.		
<b>Foss, Eugene N.</b>	Ac.	Apr. 25, 1907
11 Revere St., Jamaica Plain, Mass.		
<b>Foss, Noble</b>	Ac.	Apr. 16, 1926
Pres. Maverick Mills, 60 State St., Boston, Mass.		
<b>Fowler, C. S.</b>	Ac.	June 29, 1920
Westerly, R. I.		
<b>Fowler, E. T.</b>	As.	Apr. 26, 1906
Treas. & Mgr. Foster Machine Co., Westfield, Mass.		
<b>Fraker, George W.</b>	As.	Mar. 1, 1919
Vice Pres. National City Bank, New York City.		
<b>France, Edward W.</b>	Ac.	Sept. 22, 1896
Director, Philadelphia Textile School, Broad and Pine Sts., Philadelphia, Pa.		
<b>France, Thomas W.</b>	As.	Dec. 7, 1923
150 Beaufort St., Providence, R. I.		
<b>Francis T. A., &amp; Co.</b>	Sus.	Aug. 1, 1919
T. A. Francis, Providence, R. I.		
<b>Franklin Rayon Corporation</b>	Sus.	Oct. 27, 1927
Royal Little, Treas., 86 Crary St., Providence, R. I.		
<b>Freeman, Arthur C.</b>	Ac.	Apr. 27, 1899
Vice Pres. H. W. Butterworth & Sons Co., 1212 Turks Head Bldg., Providence, R. I.		
<b>Frisbie, Calvin H.</b>	S.R.	July 20, 1918
Pres. Totokett Mfg. Co., Norwich, Conn.		
<b>Fritz, Frank R.</b>	Ac.	Oct. 16, 1919
Nashua Mfg. Co., 48 Franklin St., Boston, Mass.		
<b>Frost, Rufus S.</b>	As.	Apr. 15, 1927
Crompton & Knowles Loom Works, Worcester, Mass.		

		Elected
<b>Gage, Homer</b> Pres. Crompton & Knowles Loom Works, Worcester, Mass.	S.R.	July 20, 1918
<b>Gagnebin, Charles L.</b> 41 Carlton St., Brookline, Mass.	As.	Apr. 30, 1914
<b>Gallant, Walter B.</b> Agt. Newmarket Mfg. Co., Newmarket, N. H.	Ac.	Feb. 2, 1922
<b>Gama, Salvado R.</b> Mgr. Machado, Gama & Co., Caixa Postal No. 2093, Rio de Janeiro, Brazil.	{ L.	Apr. 27, 1916
		Apr. 26, 1917
<b>Gardner, Arnold C.</b> Treas. Manomet Mills, 1 Clinton Pl., New Bedford, Mass.	Ac.	Apr. 26, 1906
<b>Gardner, William B.</b> Treas. Nashawena Mills, New Bedford, Mass.	Ac.	Sept. 23, 1909
<b>Garland, James P.</b> Vice Pres. Garland Mfg. Co., Saco, Me.	As.	Apr. 16, 1926
<b>Garside, Alston H.</b> Director, Garside Cotton Service, 28 State St., Boston, Mass.	As.	Apr. 16, 1926
<b>Garvin, James</b> Supt. Harmony Mills, Cohoes, N. Y.	Ac.	Oct. 20, 1917
<b>Gary, E. Stanley</b> Pres. James S. Gary & Sons, Inc., 204-206 American Bldg., Baltimore, Md.	Ac.	Oct. 1, 1903
<b>General Electric Company</b> West Lynn, Mass. Gerard Swope, Pres., New York City. W. W. Cronkhite, Schenectady, N. Y.	Sus.	May 24, 1917
<b>Gibbs, E. Payson</b> Biddeford, Me.	Ac.	Sept. 23, 1909
<b>Gilliland, Charles L.</b> 1530 Bankers Trust Bldg., Philadelphia, Pa.	Ac.	Oct. 2, 1913
<b>Gilman, Edward T.</b> 363 Bridge St., Lowell, Mass.	Ac.	May 5, 1922
<b>Gilmore, George L.</b> K. M. Gilmore & Co., Somerville, Mass.	Ac.	Apr. 29, 1916
<b>Gilmore, K. M., &amp; Co.</b> George L. Gilmore, Somerville, Mass.	Sus.	June 4, 1917
<b>Glennon, John F.</b> Supt. Quissett Mill, New Bedford, Mass.	Ac.	Apr. 16, 1926
<b>Glennon, Thomas F.</b> Agt. Quissett Mill, New Bedford, Mass.	Ac.	Apr. 28, 1910
<b>Gniessin, Vladimir F.</b> Blythewood, S. C.	Ac.	Oct. 1, 1903
<b>Goddard Brothers</b> R. H. I. Goddard, Treas., Providence, R. I.	Sus.	Nov. 8, 1918
<b>Goddard, R. H. I.</b> Treas. Goddard Brothers, Providence, R. I.	S.R.	Nov. 8, 1918
<b>Godfrey, William C.</b> Treas. and Agt. Indian Orchard Co., Indian Orchard, Mass.	Ac.	Oct. 29, 1890
<b>Goerner, Gustav William</b> Roessler & Hasslach Chemical Co., 40 Central St., Boston, Mass.	As.	Apr. 27, 1916
<b>Goff, Albert H.</b> The Textile-Finishing Machinery Co., Providence, R. I.	Ac.	Apr. 25, 1907

		Elected
<b>Goldman, Maurice A.</b>	Ac.	Sept. 30, 1927
Lockwood, Greene & Co., Inc., 24 Federal St., Boston, Mass.		
<b>Goldsmith, Wm. H., Jr.</b>	As.	Oct. 20, 1917
Consulting Engr., 43 Garrison Rd., Brookline, Mass.		
<b>Goodyear Cotton Mills, Inc.</b>	Sus.	Feb. 8, 1918
H. B. Puckett, Asst. Treas., Goodyear, Conn.		
<b>Gordon, Beirne, Jr.</b>	Ac.	Apr. 28, 1910
V. P. & Gen. Mgr. The Skenandoa Cotton Co., 1201 Broad St., Utica, N. Y.		
<b>Gordon, C. B.</b>	Ac.	Sept. 13, 1906
Pres. Dominion Textile Co., Ltd., 10 Victoria Sq., Montreal, Quebec, Canada.		
<b>Gordon, Frank S.</b>	Ac.	Sept. 8, 1922
Agt. Boston Duck Co., Bondsville, Mass.		
<b>Gordon, Frederick B.</b>	Ac.	Apr. 26, 1900
Pres. Columbus Mfg. Co., Columbus, Ga.		
<b>Gore, Lyman W.</b>	S.R.	Oct. 27, 1927
Gore-Temple Company, 178 Federal St., Boston, Mass.		
<b>Gore-Temple Company</b>	Sus.	Oct. 27, 1927
Lyman W. Gore, 178 Federal St., Boston, Mass. Chas. S. Temple, 178 Federal St., Boston, Mass.		
<b>Gosnold Mills Co.</b>	Sus.	Sept. 25, 1917
Allan Barrows, Treas., New Bedford, Mass.		
<b>Gould, William A.</b>	As.	Dec. 6, 1926
30 Alvarade Ave., Worcester, Mass.		
<b>Gourley, Hugh J.</b>	Ac.	Sept. 8, 1922
Agt. Warren Mfg. Co., Water St., Warren, R. I.		
<b>Goyette, A. Erland</b>	{	May 5, 1922
Mgr. Joseph Noone's Sons Co., Peterboro, N. H.		Oct. 27, 1927
<b>Grab, Max</b>	Ac.	Apr. 6, 1922
M. Grab Sons, Prague VIII, Czechoslovakia.		
<b>Grandison, Ralph V.</b>	As.	June 29, 1920
Agt. Hazard Cotton Co., P. O. Box 1835, Boston, Mass.		
<b>Granite Mills</b>	Sus.	June 20, 1918
James A. Sinclair, Treas., Fall River, Mass.		
<b>Grant, George P., Jr.</b>	Ac.	Sept. 27, 1894
Treas. Grant Yarn Co., Fitchburg, Mass.		
<b>Gray, William H.</b>	Ac.	May 3, 1918
Pres. and Treas. Dedham Finishing Co., Dedham, Mass.		
<b>Greene, Edwin Farnham</b>	Ac.	Apr. 24, 1902
Treas. Pacific Mills, 24 Thomas St., New York City.		
<b>Greene, Everett A.</b>	Ac.	May 4, 1920
Lockwood, Greene & Co., 24 Federal St., Boston, Mass.		
<b>Greene, F. Hartwell</b>	Ac.	June 1, 1923
Treas. New England Southern Mills, 24 Federal St., Boston, Mass.		
<b>Greene, Ray W., Jr.</b>	Ac.	Nov. 21, 1927
Lawton Mills Corp., Plainfield, Conn.		
<b>Greene, S. Harold</b>	Ac.	Apr. 27, 1905
Treas. Lawton Mills Corp., 24 Federal St., Boston, Mass.		
<b>Greenhalgh, George T.</b>	Ac.	Apr. 30, 1909
Treas. Greenhalgh Mills, Pawtucket, R. I.		



			Elected
<b>Greenlaw, Henry C.</b>	Agt., Nashua Mfg. Co., Suffolk Mills, Lowell, Mass.	Ac.	Apr. 26, 1928
<b>Greenough, Allan B.</b>	45 Milk St., Boston, Mass.	Ac.	Oct. 20, 1918
<b>Greenville Finishing Company</b>	A. F. Shaw, Pres., Greenville, R. I.	Sus.	June 14, 1926
<b>Greer, Samuel</b>	Supt. Lancaster Mills, 40 Chestnut St., Clinton, Mass.	Ac.	Apr. 24, 1923
<b>Greer, William K.</b>	Agt. Hoosac Cotton Mills, P. O. Box 258, North Adams, Mass.	Ac.	Apr. 26, 1906
<b>Greylock Mills</b>	Gilbert T. Thompson, Treas., North Adams, Mass.	Sus.	May 15, 1917
<b>Gridley, Oscar W.</b>	Treas. Utica Knitting Co., Erie St., Utica, N. Y.	Ac.	Apr. 28, 1910
<b>Grinnell Mfg. Corp.</b>	Joseph W. Webster, Treas., New Bedford, Mass.	Sus.	Mar. 18, 1918
<b>Griswoldville Mfg. Co.</b>	Joseph W. Ballard, Treas., Griswoldville, Mass.	Sus.	Jan. 21, 1918
<b>Grosvenor-Dale Co.</b>	A. W. Dimick, Treas., No. Grosvenor-Dale, Conn.	Sus.	Sept. 10, 1918
<b>Grosvenor, William</b>	Pres. Grosvenor-Dale Co., P. O. Box 1384, Providence, R. I.	Ac.	Apr. 28, 1910
<b>Gunby, Frank M.</b>	c/o Charles T. Main, 201 Devonshire St., Boston, Mass.	As.	Apr. 26, 1917
<b>Haff, Raymond E. T.</b>	Du Pont Rayon Co., 2 Park Ave., New York City.	As.	Sept. 30, 1927
<b>Hagan, Thomas H.</b>	Mgr. The Textile Development Co., 80 Federal St., Boston, Mass.	Ac.	June 5, 1925
<b>Hague, Edwin D.</b>	Whitin Machine Wks., Whitinsville, Mass.	As.	Oct. 5, 1922
<b>Hale, Frank J.</b>	147 Milk St., Boston, Mass.	Ac.	Apr. 27, 1892
<b>Hale, Roger D.</b>	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Oct. 14, 1925
<b>Haley, Henry T.</b>	Pres. Dundee Mills, Hooksett, N. H.	Ac.	Sept. 30, 1914
<b>Hall, F. C.</b>	Treas. Granite Mills, Fall River, Mass.	Ac.	Oct. 29, 1918
<b>Hall, F. Kilby</b>	Cotton Technologist, U. S. Dept. of Agriculture, Clemson Agricultural College, Clemson College, S. C.	L.	Sept. 30, 1927
			Feb. 10, 1928
<b>Hall, H. Dwight</b>	Sec. Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St., Boston, Mass.	As.	June 1, 1923
<b>Hall, Lindsay S.</b>	Supt. Devon Mills, Inc., New Bedford, Mass.	Ac.	Oct. 16, 1919
<b>Hall, Walter B.</b>	Agt. York Mfg. Co., Saco, Me.	Ac.	Apr. 25, 1901
<b>Halliwell, William</b>	Agt. Lawton Spinning Co., Woonsocket, R. I.	Ac.	Sept. 26, 1901

		Elected
<b>Hanaford, John H.</b> 89 State St., Boston, Mass.	As.	May 3, 1918
<b>Hannah, George K.</b> Supt. Parkhill Mfg. Co., 70 Congress St., Fitchburg, Mass.	Ac.	Apr. 24, 1923
<b>Hansen, Harold C.</b> Boston Transcript, 324 Washington St., Boston, Mass.	{ L.	Sept. 23, 1909 Sept. 23, 1910
<b>Harden, Henry C.</b> Agt. Great Falls Mfg. Co., Somersworth, N. H.	Ac.	May 3, 1918
<b>Harding, Charles L.</b> Pres. Whitman Mills, 77 Franklin St., Boston, Mass.	Ac.	Sept. 11, 1912
<b>Harding, Tilton &amp; Co.</b> Newell W. Tilton, 50 Union Sq., New York City.	Sus.	Dec. 17, 1917
<b>Harmon, William C.</b> Pres. The Pond Lily Co., New Haven, Conn.	S.R.	Aug. 21, 1917
<b>Harmony Mills</b> John Skinner, Treas., Cohoes, N. Y.	Sus.	May 10, 1917
<b>Harris, Thomas</b> Gen. Supt. Social, Nourse & Globe Mills, Manville Jenckes Co., Woonsocket, R. I.	Ac.	Jan. 11, 1926
<b>Harrison, Gilbert D.</b> V. P. & Gen. Mgr. Lewiston Bleachery & Dye Works, Lewiston, Me.	Ac.	Jan. 12, 1922
<b>Harrison, Herbert</b> Agt. John Hetherington & Sons, Ltd., 49 Federal St., Boston, Mass.	As.	Jan. 14, 1919
<b>Harrower, Francis D.</b> Asst. Agt. The Wauregan Co., Wauregan, Conn.	Ac.	Apr. 4, 1924
<b>Harrower, Gordon</b> Vice Pres. & Asst. Treas. The Wauregan Co., P. O. Box 1425, Providence, R. I.	Ac.	Feb. 2, 1923
<b>Hartley, Frank</b> Frank Hartley & Son, 146 Summer St., Boston, Mass.	Ac.	Apr. 27, 1905
<b>Hartshorne, William D.</b> 64 Middlesex Ave., Swampscott, Mass.	{ L.	Apr. 27, 1899 Apr. 26, 1906
<b>Hastings, Walter M.</b> Agt. Monomac Spinning Co., Lawrence, Mass.	Ac.	Apr. 23, 1903
<b>Hatch, Roy O.</b> Supt. Samson Cordage Works, Shirley, Mass.	Ac.	Apr. 16, 1926
<b>Hatch, T. Edward</b> Asst. Treas. Greenwich Bleachery Company, 80 Federal St., Boston, Mass.	Ac.	Oct. 27, 1927
<b>Hathaway, Edgar F.</b> Vice Pres. & Gen. Mgr. Shawmut Engineering Co., 195 Freeport St., Dorchester, Mass.	As.	Apr. 27, 1905
<b>Hathaway, Horatio</b> Pres. Acushnet Mill Corp., 8 Beacon St., Boston, Mass.	As.	Apr. 16, 1926
<b>Hathaway Mfg. Co.</b> J. E. Stanton, Jr., Treas., New Bedford, Mass.	Sus.	Nov. 21, 1918
<b>Hathaway, Russell</b> Lockwood, Greene & Co., Inc., Laboratory, 27 Albany St., Boston, Mass.	Ac.	Jan. 6, 1928
<b>Haughton, M. Graeme</b> Haughton & Co., 40 Central St., Boston, Mass.	{ L.	Apr. 29, 1915 May 15, 1916
<b>Haurowitz, Stephen Carl</b> L. Haurowitz-Grattau, Prague II, Václavské 14, Czechoslovakia.	Ac.	Apr. 6, 1922

			Elected	
<b>Havey, J. Fred</b>	Mgr. Foreign Sales Dept., Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Sept. 17, 1910	
<b>Hawes, William B.</b>	O. S. Hawes & Brother, P. O. Box 733, Fall River, Mass.	Ac.	Apr. 24, 1895	
<b>Hayes, Clifford B.</b>	Pacific Mills, Lyman Division, Lyman, S. C.	Ac.	Jan. 17, 1927	
<b>Hayward, Harry J.</b>	New England Southern Mills, 60 Federal St., Boston, Mass.	Ac.	Aug. 10, 1927	
<b>Hayward, Harry T.</b>	Pres. Forestdale Mfg. Co., Franklin, Mass.	Ac.	Apr. 25, 1907	
<b>Hazard, William H., Jr.</b>	The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	Apr. 16, 1926	
<b>Heap, Charles F.</b>	Supt. Lincoln Mfg. Co., Fall River, Mass.	Ac.	Apr. 30, 1909	
<b>Heatley, Thomas E.</b>	320 Broadway, New York City.	Ac.	Sept. 11, 1915	
<b>Hedrick, Charles C.</b>	c/o Mitsubishi Shoji Kaisha, Ltd., 15 Andojibashidori, 3 Chome, Minami-Ku, Osaka, Japan.	As.	Apr. 23, 1903	
<b>Helfenbein, Robert</b>	105 George St., Fall River, Mass.	Jr. Tech.	Jan. 17, 1927	
<b>Hendry, Robert A.</b>	Asst. Supt. Nashawena Mills, New Bedford, Mass.	Ac.	June 14, 1926	
<b>Hentz, H., &amp; Company</b>	George L. Snowden, Mgr. Cotton Dept., 60 Beaver St., New York City.	Sus.	Apr. 26, 1928	
<b>Herrick, Clifford E.</b>	Northern Agent, Boyce Weavers Knotter, 44 Franklin St., Providence, R. I.	As.	June 14, 1926	
<b>Herrick, Robert F., Jr.</b>	V. P. Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Apr. 6, 1920	
<b>Herrick, Robert F.</b>	Pres. Pacific Mills, 1 Federal St., Boston, Mass.	Ac.	Apr. 27, 1916	
<b>Herron, Alexander T.</b>	P. O. Box 57, Utica, N. Y.	Ac.	Apr. 4, 1924	
<b>Hersey, Henry H.</b>	Mgr. Roller Leather Dept. A. C. Lawrence Leather Co., 210 South St., Boston, Mass.	As.	Apr. 16, 1926	
<b>Hewins, Edmund D.</b>	Pres. & Treas. E. D. Hewins, Inc., 72 Lincoln St., Boston, Mass.	As.	Oct. 5, 1922	
<b>Heyes, Fred L.</b>	Agt. Nonquitt Spinning Co., 449 Clinton St., New Bedford, Mass.	Ac.	Sept. 11, 1915	
<b>Hill, John H.</b>	Steel Heddle Mfg. Co., Providence, R. I.	As.	Apr. 16, 1926	
<b>Hill &amp; Cutler Co.</b>	Laurance D. Chapman, Asst. Treas., 1 Pearl St., New Bedford, Mass.	Sus.	Mar. 7, 1924	
<b>Hill Mfg. Co.</b>	Walter H. Bradley, Treas., 89 State St., Boston, Mass.	Sus.	June 15, 1923	
<b>Hillman, Ralph G.</b>	Asst. Supt. Samson Cordage Works, Shirley, Mass.	Ac.	Apr. 16, 1926	
<b>Hinckley, Everett H.</b>	Borne-Scrymser Co., 17 Battery Pl., New York City.	As.	Aug. 3, 1921	

		Elected
<b>Hinckley, George C.</b>	Textile Broker, 707 Grosvenor Bldg., Providence, R. I.	Ac. Sept. 23, 1909
<b>Hindle, Joseph H.</b>	Supt. Print Wks. Div. American Printing Co., Water St., Fall River, Mass.	Ac. June 1, 1923
<b>Hitchcock, Thomas B.</b>	32 Fuller St., Brookline, Mass.	Ac. Apr. 13, 1911
<b>Hobbs, A. F.</b>	Vice Pres. New York Mills Corp., New York Mills, N. Y.	S.R. Feb. 10, 1920
<b>Hobbs, Ernest S.</b>	Treas. Aurora Cotton Mills, Aurora, Ill.	Ac. Oct. 29, 1918
<b>Hobbs, Franklin W.</b>	Pres. Arlington Mills, 78 Chauncy St., Boston, Mass.	{ L. Apr. 27, 1899 Apr. 18, 1917
<b>Hoch, William H.</b>	Whitin Machine Works, Whitinsville, Mass.	As. Apr. 15, 1927
<b>Hodges, Charles E.</b>	Pres. American Mutual Liability Ins. Co., 142 Berkeley St., Boston, Mass.	As. Apr. 17, 1908
<b>Holbrook, H. G.</b>	Kendall Mills, Walpole, Mass.	S.R. Aug. 3, 1921
<b>Holcomb, Clark W.</b>	New Bedford Boiler & Machine Co., P. O. Box 650, New Bedford, Mass.	Ac. Sept. 21, 1905
<b>Holgate, Benjamin</b>	Agt. Boott Mills, Lowell, Mass.	Ac. Jan. 12, 1922
<b>Holmes, Charles M.</b>	Treas. Holmes Mfg. Co., New Bedford, Mass.	Ac. Apr. 27, 1899
<b>Holmes Mfg. Co.</b>	Charles M. Holmes, Treas., New Bedford, Mass.	Sus. Sept. 18, 1917
<b>Holt, John H.</b>	Treas. Luther Mfg. Co., P. O. Box 57, Fall River, Mass.	{ L. Apr. 23, 1903 Feb. 25, 1920
<b>Homer, Arthur C.</b>	Treas. Pilgrim Mills, Fall River, Mass.	S.R. July 17, 1917
<b>Hood, Ernest N.</b>	Treas. Naumkeag Steam Cotton Co., Salem, Mass.	Ac. Oct. 20, 1917
<b>Hook, Russell W.</b>	Textile Chemist, Arthur D. Little, Inc., 30 Charles River Road, Cambridge, Mass.	Ac. Apr. 26, 1928
<b>Hooper, James P.</b>	Vice Pres. William E. Hooper & Sons Co., Baltimore, Md.	Ac. May 3, 1918
<b>Hooper, Robert P.</b>	Treas. Hooper Sons Mfg. Co., Juniper and Cherry Sts., Philadelphia, Pa.	Ac. Sept. 21, 1905
<b>Hocsac Cotton Mills</b>	Harold M. Coxen, North Adams, Mass.	Sus. Feb. 21, 1918
<b>Hopkinson, Thomas</b>	Hopkinson Dyeing & Textile Works, Fall River, Mass.	Ac. Apr. 25, 1912
<b>Hopson, Harry B.</b>	Green & Hopson, Green Bldg., Springfield, Mass.	Ac. Apr. 28, 1904
<b>Horton, Herbert Roy</b>	J. & P. Coats (R. I.), Inc., 614 East Ave., Pawtucket, R. I.	Ac. Mar. 4, 1927
<b>Houghton, Harry E.</b>	Supt. Spinning, Dartmouth Mfg. Co., Cove St., New Bedford, Mass.	Ac. Apr. 30, 1914

		Elected
<b>Howard Bros. Mfg. Co.</b>	Sus.	Jan. 22, 1918
Herbert Midgley, Pres. & Gen. Mgr., Worcester, Mass.		
<b>Howe, Dudley R.</b>	Ac.	Oct. 5, 1923
Director, Lockwood, Greene & Co., Mgrs., 24 Federal St., Boston, Mass.		
<b>Howe, Frederick W.</b>	As.	Apr. 24, 1902
Vice Pres. Crompton & Knowles Loom Wks., P. O. Box 1361, Providence, R. I.		
<b>Howe, Henry S.</b>	Ac.	Oct. 31, 1877
53 State St., Room 843, Boston, Mass.		
<b>Howe, Parkman D.</b>	Ac.	Sept. 11, 1915
Lawrence & Co., 89 Franklin St., Boston, Mass.		
<b>Howe, Percival S., Jr.</b>	Ac.	Mar. 2, 1923
Wellington, Sears & Co., 65 Worth St., New York City.		
<b>Howe, Woodbury K.</b>	Ac.	June 7, 1919
Asst. Supt. Merrimack Mfg. Co., Lowell, Mass.		
<b>Howland, Weston</b>	Ac.	May 1, 1924
Treas. Warwick Mills, 201 Devonshire St., Boston, Mass.		
<b>Hoxie, Frederick J.</b>	Ac.	Apr. 26, 1928
Consulting Textile Engineer, West Warwick, R. I.		
<b>Hubbard, Samuel T.</b>	As.	Sept. 13, 1906
Hubbard Bros. & Co., 66 Beaver St., New York City.		
<b>Huggins, Gurry E.</b>	As.	Apr. 30, 1914
79 Broadway, New York City.		
<b>Hunnewell, Arnold W.</b>	As.	May 3, 1921
Treas. Nashua Homes Corp., P. O. Box 1302, Boston, Mass.		
<b>Hunter, Henry P.</b>	Ac.	Apr. 24, 1913
Supt. Equinox Mill, Anderson, S. C.		
<b>Huntoon, Harrison B., Jr.</b>	Ac.	June 1, 1923
Treas. Providence Braid Co., P. O. Box 1271, Providence, R. I.		
<b>Huntoon, Maxwell C.</b>	Ac.	June 1, 1923
Pres. Woodlawn Finishing Co., P. O. Box 1211, Providence, R. I.		
<b>Hyslop, Samuel</b>	Ac.	Sept. 30, 1908
Mgr. Saxony Worsted Mills, Newton, Mass.		
<b>Ilsley, John P.</b>	As.	Oct. 6, 1921
N. E. Mgr. Wing & Evans, Inc., 77 Summer St., Boston, Mass.		
<b>Inches, Charles E.</b>	Ac.	May 4, 1920
Treas. Androscoggin Mills, 77 Franklin St., Boston, Mass.		
<b>Industrial Rayon Corporation</b>	Sus.	Feb. 10, 1928
D. S. Mallory, Treas., W. 98th St. and Walford Ave., Cleveland, Ohio		
Hiram S. Rivitz, Pres., W. 98th St. and Walford Ave., Cleveland, Ohio		
<b>Interlaken Mills</b>	Sus.	Oct. 29, 1918
Harris H. Bucklin, Asst. Treas., Phenix, R. I.		
<b>Irvine, Robert A.</b>	Ac.	Dec. 6, 1926
Lancaster Mills, Clinton, Mass.		
<b>Iselin, Oliver</b>	Ac.	May 13, 1927
William Iselin & Co., 18 Thomas St., New York City.		
<b>Jackson, N. Baxter</b>	As.	Feb. 5, 1926
Vice Pres. Chemical National Bank, 270 Broadway, New York City.		
<b>Jackson, P. T.</b>	Ac.	Sept. 21, 1905
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass.		

		Elected
<b>Jackson, S. Eugene</b>	Ac.	May 1, 1924
Asst. Treas. Crown Mfg. Co., Pawtucket, R. I.		
<b>Jamieson, Joseph B.</b>	Ac.	Oct. 2, 1902
Treas. J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.		
<b>Jamieson, Philip S.</b>	Ac.	June 14, 1926
Vice Pres. J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.		
<b>Jelleme, W. O.</b>	Ac.	Aug. 5, 1919
Farley Road, Short Hills, N. J.		
<b>Jenckes, Earl S.</b>	Ac.	Apr. 27, 1905
Vice Pres. & Gen. Mgr. Reading Cotton Mill, Jos. Bancroft & Sons Co. of Pennsylvania, Reading, Pa.		
<b>Jenckes, Frederick L.</b>	Ac.	Apr. 25, 1907
Treas. Manville Jenckes Co., Pawtucket, R. I.		
<b>Jenkins, Arthur L.</b>	As.	Apr. 26, 1928
Asst. Treas. Emmons Loom Harness Co., Lawrence, Mass.		
<b>Jenks, Robert R.</b>	As.	Oct. 5, 1922
Pres. Fales & Jenks Machine Co., 320 Dexter St., Pawtucket, R. I.		
<b>Jenks, Samuel A.</b>	As.	Apr. 16, 1926
Sec. & Gen. Mgr. Union Electric Supply Co., 20 Commercial St., New Bedford, Mass.		
<b>Jennings, Edward B.</b>	Ac.	Sept. 29, 1898
547 High St., Fall River, Mass.		
<b>Jennings, William H.</b>	S.R.	Nov. 1, 1918
Treas. Algonquin Printing Co., Fall River, Mass.		
<b>Johnson, Arthur R.</b>	As.	May 1, 1924
Ridley Watts Co., 44 Leonard St., New York City.		
<b>Johnson, Edward M.</b>	As.	Apr. 29, 1915
Vice Pres. & Treas. Arnold, Hoffman & Co., Inc., P. O. Box 1376, Providence, R. I.		
<b>Jones, Allen</b>	Ac.	Oct. 5, 1922
Asst. Mgr. Beaver Mills, 102 Worth St., New York City.		
<b>Jones, Ernest G.</b>	As.	May 5, 1919
Cooper & Brush, 826 Industrial Trust Bldg., Providence, R. I.		
<b>Jones, William A.</b>	As.	July 30, 1926
Pres. Jones & Brown Co., 40 Central St., Boston, Mass.		
<b>Judson, Wm. D.</b>	S.R.	Nov. 23, 1918
Parker, Wilder & Co., 78 Leonard St., New York City.		
<b>Jury, Alfred E.</b>	As.	Sept. 16, 1916
United States Rubber Co., 1790 Broadway, New York City.		
<b>Kay, George R.</b>	Tech.	Oct. 27, 1927
The Textile Development Company, 80 Federal St., Boston Mass.		
<b>Kay, K.</b>	Ac.	June 6, 1924
Binny & Co. (Madras) Ltd., 7 Armenian St., Madras, India.		
<b>Kean, George P.</b>	Ac.	Apr. 6, 1928
Nyanza Mills, Woonsocket, R. I.		
<b>Keech, F. B., &amp; Co.</b>	Sus.	Apr. 26, 1928
W. Brewster Southworth, 30 State St., Boston, Mass.		
<b>Keeler, Lawrence M.</b>	As.	Sept. 26, 1901
Agt. Whitin Machine Wks., Whitinsville, Mass.		
<b>Kelley, Ahira Baker</b>	Ac.	Apr. 13, 1911
Bemis Bro. Bag. Co., 40 Central St., Boston, Mass.		

		Elected
<b>Kelley, Timothy J.</b>	Vice Pres. Brighton Mills, Passaic, N. J.	Ac. Apr. 30, 1909
<b>Kendall, Henry P.</b>	Pres. Kendall Mills, 80 Federal St., Boston, Mass.	Ac. Apr. 29, 1915
<b>Kendall Mills</b>	H. G. Holbrook, Walpole, Mass.	Sus. Aug. 3, 1921
<b>Kenney, Frank B.</b>	Pres. T. C. Entwistle Co., 297 Market St., Lowell, Mass.	As. Oct. 5, 1899
<b>Kenney, Joseph T.</b>	Pres. Sharp Mfg. Co., New Bedford, Mass.	Ac. May 3, 1918
<b>Kenyon, Walter S.</b>	American Thread Co., 260 West Broadway, New York City.	Ac. Dec. 6, 1926
<b>Kern, William E., Jr.</b>	Treas. Taber Mill, New Bedford, Mass.	Ac. Sept. 23, 1909
<b>Kerr, James B.</b>	Agt. American Thread Co., Fall River, Mass.	Ac. Apr. 25, 1907
<b>Kershaw, Elias H.</b>	Supt. Greylock Mill A, North Adams, Mass.	Ac. Oct. 14, 1926
<b>Killheffer, Elvin H.</b>	Vice Pres. Newport Chemical Wks., Inc., Passaic, N. J.	S.R. Nov. 10, 1919
<b>Killian, J. R.</b>	Box 115, Columbus, Ga.	Ac. Nov. 1, 1923
<b>Kimball, William N.</b>	Agt. Manville Co., Woonsocket, R. I.	Ac. Apr. 24, 1902
<b>King, Gelston T.</b>	E. and F. King Co., Inc., 405 Atlantic Ave., Boston, Mass.	As. Nov. 13, 1924
<b>King Philip Mills</b>	Simcon B. Chase, Treas., Fall River, Mass.	Sus. June 14, 1918
<b>Kirk, John T.</b>	Gen. Supt. Nashawena Mill, 109 Bedford St., New Bedford, Mass.	Ac. Apr. 27, 1905
<b>Klebart, Fred S.</b>	The J. B. Ford Co., Wyandotte, Mich.	As. Apr. 25, 1912
<b>Kleeb, Leonard, Jr.</b>	County Road, Ipswich, Mass.	Ac. May 3, 1918
<b>Knight, Jesse A.</b>	Agt. Manomet Mills, New Bedford, Mass.	Ac. Oct. 26, 1892
<b>Knight, Walter B.</b>	Agt. Quidnick-Windham Mfg. Co., Willimantic, Conn.	Ac. Apr. 24, 1889
<b>Knowland, Richard G.</b>	Con. Chemical Eng., 88 Broad St., Boston, Mass.	As. Mar. 7, 1924
<b>Knowlton, Harold W.</b>	Treas. The Textile Development Co., 77 Summer St., Boston, Mass.	Ac. June 5, 1925
<b>Knowlton, Harry W.</b>	Pres. Knowlton & Newton Co., Inc., 545 Broadway, Lowell, Mass.	As. Nov. 1, 1923
<b>Kunhardt, L. H.</b>	Vice Pres. Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St., Boston, Mass.	As. Oct. 2, 1913

		Elected
<b>Lampport Mfg. Supply Co.</b>		
Samuel C. Lampport, Pres., 509 Broadway, New York City.	Sus.	Nov. 13, 1924
<b>Lampport, Samuel C.</b>		
Pres. Lampport Mfg. Supply Co., 509 Broadway, New York City.	S.R.	Nov. 13, 1924
<b>Lancaster Mills</b>		
S. Harold Greene, Pres., 24 Federal St., Boston, Mass.	Sus.	Nov. 5, 1917
<b>Lane, David F.</b>		
W. T. Lane & Bros., Poughkeepsie, New York.	Ac.	Dec. 5, 1924
<b>Langdon, Duncan</b>		
Vice Pres. & Gen. Mgr. S. Slater & Sons, Inc., Webster, Mass.	Ac.	Jan. 11, 1926
<b>Lapham, Leonard C.</b>		
Treas. Nonquitt Spinning Co., New Bedford, Mass.	Ac.	Apr. 25, 1907
<b>Lasell, John W.</b>		
Advertising Mgr. Whitin Machine Works, Whitinsville, Mass.	As.	Feb. 5, 1926
<b>Lasell, Josiah M.</b>		
Whitin Machine Wks., Whitinsville, Mass.	As.	Apr. 24, 1895
<b>Latham, Wendell G.</b>		
Supt. Blodgett & Orswell Co., Pawtucket, R. I.	Ac.	June 5, 1925
<b>Lawrence, James</b>		
McFadden, Sands & Co., 114 Federal St., Boston, Mass.	As.	Sept. 30, 1914
<b>Lawrence, John S.</b>		
Lawrence & Co., 89 Franklin St., Boston, Mass.	As.	Apr. 30, 1909
<b>Lawrence &amp; Co.</b>		
John S. Lawrence, 89 Franklin St., Boston, Mass.	Sus.	May 31, 1917
<b>Lawrence Duck Co.</b>		
William L. Barrell, Treas., Lawrence, Mass.	Sus.	Mar. 15, 1918
<b>Lawson, John</b>		
Pres. Hemphill Co., Pawtucket, R. I.	As.	Oct. 26, 1918
<b>Lawson, Ralph</b>		
John Malloch & Co., 128 Washington St., Boston, Mass.	As.	Oct. 20, 1917
<b>Lawton Mills Corp., The</b>		
S. Harold Greene, Treas., 24 Federal St., Boston, Mass.	Sus.	Nov. 5, 1917
<b>Leach, Joseph T.</b>		
Supt. Durfee Mills, Fall River, Mass.	Ac.	Apr. 13, 1911
<b>Leary, Frank J.</b>		
Leary & Walker, New Bedford, Mass.	As.	Apr. 16, 1926
<b>Lee, William S.</b>		
Vice Pres. Southern Power Co., P. O. Box 600, Charlotte, N. C.	Ac.	Apr. 13, 1911
<b>Leland, Richard C.</b>		
Warwick Mills, West Warwick, R. I.	Ac.	Mar. 4, 1927
<b>Leonard, Philip H.</b>		
Supt. Ipswich Mills, Ipswich, Mass.	Ac.	June 14, 1926
<b>Leonard, Russell H.</b>		
Treas. Pepperell Mfg. Co., 160 State St., Boston, Mass.	Ac.	Apr. 29, 1915
<b>Leonard, Wardwell C.</b>		
Nashawena Mills, New Bedford, Mass.	Tech.	Mar. 2, 1923
<b>Leve, Adolph</b>		
New England Waste Co., 549 Atlantic Ave., Boston, Mass.	As.	June 8, 1928
<b>Lewis, J. Colby</b>		
Supt. Pemaquid Mills, P. O. Box 940, New Bedford, Mass.	Ac.	Nov. 13, 1924



		Elected	
<b>Libbey, W. Scott</b>	Treas. W. S. Libbey Co., Lewiston, Me.	Ac.	May 5, 1922
<b>Liberty, Earl J.</b>	Whitin Bros., Inc., Whitinsville, Mass.	Ac.	Mar. 4, 1927
<b>Lincoln Mfg. Co.</b>	Israel Brayton, Treas., Fall River, Mass.	Sus.	July 30, 1917
<b>Lindell, George A.</b>	114 N. Main St., Uxbridge, Mass.	Tech.	Apr. 16, 1926
<b>Lippitt, Henry F.</b>	Chairman, Manville Jenekes Co., P. O. Box 1465, Providence, R. I.	Ac.	Apr. 27, 1881
<b>Little Androscoggin Water Power Co.</b>	W. E. Winchester, Treas., 79 Leonard St., New York City.	Sus.	Sept. 18, 1917
<b>Little, Royal</b>	Franklin Rayon Corporation, 86 Crary St., Providence, R. I.	S.R.	Oct. 27, 1927
<b>Littlefield, W. Joseph</b>	Treas. Thorndike Company, 24 Milk St., Boston, Mass.	Ac.	Apr. 6, 1928
<b>Locke, C. Hubert</b>	Chem. Eng., York Mfg. Co., 1 Prospect St., Wakefield, Mass.	Ac.	Oct. 27, 1927
<b>Lockwood Co.</b>	William E. Winchester, 79 Leonard St., New York City.	Sus.	Aug. 10, 1917
<b>Lockwood, Greene &amp; Co., Inc.</b>	Frank W. Reynolds, Vice Pres., 24 Federal St., Boston, Mass.	Sus.	Sept. 27, 1917
<b>Lockwood, H. deForest</b>	Treas. Bates Mfg. Co., 60 Congress St., Boston, Mass.	Ac.	Apr. 13, 1911
<b>Loftus, William H.</b>	Supt. The Clark Thread Co., Newark, N. J.	Ac.	Oct. 28, 1897
<b>Loper, Ralph E., &amp; Co.</b>	Ralph E. Loper, Pres., 10 Purchase St., Fall River, Mass.	Sus.	Nov. 1, 1923
<b>Loper, Ralph E.</b>	Pres. Ralph E. Loper & Co., 10 Purchase St., Fall River, Mass.	S.R.	Nov. 1, 1923
<b>Lord, Charles E.</b>	Pres. Aberfoyle Mfg. Co., Chester, Pa.	Ac.	May 3, 1921
<b>Lord, Harry D.</b>	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	Ac.	Apr. 27, 1905
<b>Lord, Henry G.</b>	Pres. Bragdon, Lord & Nagle Co., Inc., 65 Franklin St., Boston, Mass.	S.R.	Mar. 1, 1918
<b>Lord, John T.</b>	Supt. Pacific Mills, 50 Phillips St., Andover, Mass.	Ac.	Apr. 28, 1904
<b>Lorraine Mfg. Co.</b>	James R. MacColl, Pres., Pawtucket, R. I.	Sus.	May 24, 1917
<b>Lovering, William M.</b>	Treas. Taunton Bleachery & Dye Works, Taunton, Mass.	Ac.	Sept. 27, 1894
<b>Low, J. J.</b>	E. P. Walker & Co., 100 Milk St., Boston, Mass.	As.	May 1, 1924
<b>Lowe, Arthur H.</b>	Pres. Amoskeag Mfg. Co., Manchester, N. H.	Ac.	Oct. 30, 1889
<b>Lowe, David</b>	Supt. Parkhill Mfg. Co., Fitchburg, Mass.	Ac.	Apr. 24, 1895
<b>Lowe, John</b>	Gen. Mgr. The Montreal Cottons, Ltd., Valleyfield, Quebec, Canada.	Ac.	Apr. 28, 1910

		Elected	
<b>Lowe, John</b>	61 Prospect St., South Dartmouth, Mass.	Ac.	Nov. 23, 1925
<b>Lowe, Russell B.</b>	Parkhill Division of the Amoskeag Mfg. Co., Fitchburg, Mass.	Ac.	Apr. 25, 1907
<b>Lowell, A. Lawrence, LL.D.</b>	Pres. Harvard University, 19 Quincy St., Cambridge, Mass.	Hon.	Apr. 30, 1909
<b>Lowell, W. Frank</b>	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Oct. 14, 1926
<b>Luce, George E.</b>	Supt. Beaver Mills, Waterford Plant, P. O. Box 25, Waterford, N. Y.	Ac.	Apr. 28, 1910
<b>Lunt, R. S.</b>	E. I. du Pont de Nemours & Co., Inc., 274 Franklin St., Boston, Mass.	S.R.	Oct. 27, 1927
<b>Luther Mfg. Co.</b>	John H. Holt, Treas., P. O. Box 57, Fall River, Mass.	Sus.	Feb. 1, 1918
<b>Lyall, William L.</b>	Chairman of Board, Brighton Mills, Passaic, N. J.	Ac.	Oct. 26, 1892
<b>Lyle, E. T.</b>	Vice Pres. Carrier Engineering Corp., 39 Cortlandt St., New York City.	As.	Mar. 6, 1925
<b>Lyman, Herbert</b>	18 Tremont St., Room 441, Boston, Mass.	Ac.	Oct. 25, 1895
<b>Lynch, Francis</b>	Agt. American Mfg. Co., Victory Mills, Victory Mills, N. Y.	Ac.	Jan. 12, 1922
<b>Lynch, T. J.</b>	Allis-Chalmers Mfg. Co., 50 Congress St., Boston, Mass.	As.	Sept. 30, 1914
<b>MacColl, James R.</b>	Pres. Lorraine Mfg. Co., Pawtucket, R. I.	{ L.	Apr. 24, 1895 Sept. 21, 1905
<b>MacColl, Kenneth D.</b>	J. & P. Coats (R. I.), Inc., P. O. Box 968, Pawtucket, R. I.	Ac.	June 8, 1928
<b>MacColl, William B.</b>	Sec.-Treas. Lorraine Mfg. Co., Pawtucket, R. I.	Ac.	Apr. 13, 1911
<b>MacEnroe, James F.</b>	54 Wilson St., Phillipsburg, N. J.	Ac.	June 1, 1923
<b>McBee, William B.</b>	Pres. & Treas. Blackstone Mutual Fire Insurance Co., P. O. Box 1525, Providence, R. I.	As.	Aug. 1, 1923
<b>McBee, William R. L.</b>	The Gardiner Hall, Jr., Co., S. Willington, Conn.	Ac.	Apr. 24, 1923
<b>McCaughey, Edward J.</b>	51 Arlington St., Pawtucket, R. I.	Ac.	Apr. 26, 1906
<b>McCausland, Ralph E.</b>	Barber-Colman Co., Rockford, Ill.	As.	Apr. 12, 1911
<b>McClellan, John</b>	Asst. Treas. New England Southern Mills, 24 Federal St., Boston, Mass.	Ac.	Nov. 21, 1927
<b>McCormick, Charles A.</b>	Treas. Chicopee Mfg. Corp., Chicopee Falls, Mass.	S.R.	Sept. 12, 1917
<b>McCrudden, James F.</b>	Aberfoyle Manufacturing Company, Bankers Trust Building, Philadelphia, Pa.	Ac.	Apr. 6, 1925

		Elected	
<b>McDevitt, Frederick H.</b>	Agt. Soule Mill, New Bedford, Mass.	Ac.	Sept. 17, 1910
<b>McDowell, James</b>	146 Forest St., Medford, Mass.	Ac.	May 4, 1920
<b>McDuffie, Charles D.</b>	Supt. Everett Mills, Lawrence, Mass.	Ac.	Oct. 5, 1923
<b>McDuffie, Frederic C.</b>	Treas. Everett Mills, P. O. Box 2934, Boston, Mass.	Ac.	Oct. 25, 1882
<b>McElvie, John G.</b>	Mgr. Mobile Cotton Mills, 320 Broadway, New York City.	Ac.	June 14, 1926
<b>McFadden, George H., &amp; Bro.</b>	John Austin Amory, 211 Congress St., Boston, Mass.	Sus.	Oct. 29, 1918
<b>McFadden, J. Franklin</b>	McFadden, Sands & Co., 115 Chestnut St., Philadelphia, Pa.	As.	Sept. 13, 1906
<b>McFadden, Robert C.</b>	Supt. Whitman Mills, New Bedford, Mass.	Ac.	Nov. 1, 1923
<b>McFadden, Sands &amp; Co.</b>	James Lawrence, 141 Milk St., Boston, Mass.	Sus.	June 28, 1918
<b>McGowan, Frank R.</b>	The Cotton-Textile Institute, Inc., 320 Broadway, New York City.	Ac.	Oct. 5, 1922
<b>McGregor, John A.</b>	Pres. Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac.	Apr. 28, 1910
<b>McHenry, Sidney C.</b>	Agent, Otis Company, Ware Mill, Ware, Mass.	Ac.	June 14, 1926
<b>McIntyre, Joseph B.</b>	166 President Ave., Providence, R. I.	Ac.	Sept. 11, 1912
<b>McKennie, Bernard J.</b>	W. C. Plunkett & Sons Co., 74 Commercial St., Adams, Mass.	Ac.	Jan. 17, 1927
<b>McKinley, William, Jr.</b>	W. H. Langley & Co., 77 Worth St., New York City.	As.	Apr. 29, 1915
<b>McKitterick, Edward H.</b>	Lockwood, Greene & Co., 24 Federal St., Boston, Mass.	Ac.	June 14, 1926
<b>McLean, Earle C.</b>	222 High St., Medford, Mass.	Ac.	Jan. 17, 1927
<b>McLoughlin, John E.</b>	Pres. McLoughlin Textile Corp., Utica, N. Y.	Ac.	Apr. 25, 1907
<b>McLoughlin, R. P.</b>	Treas. McLoughlin Textile Corp., Utica, N. Y.	Ac.	Sept. 13, 1906
<b>McMahon, John</b>	Treas. Fort Dummer Mills, 24 N. Main St., Providence, R. I.	S.R.	Nov. 15, 1918
<b>McNab, Allan</b>	New England Southern Mills, 24 Federal St., Boston, Mass.	Ac.	Sept. 11, 1912
<b>Macara, Charles W., Bart.</b>	Henry Bannerman & Sons, Ltd., 33 York St., Manchester, Eng.	Ac.	Apr. 25, 1907
<b>Macintyre, A. Fergusson</b>	Agt. Appleton Mfg. Co., Anderson, S. C.	Ac.	June 15, 1923
<b>Mackintosh, Charles E.</b>	Pres. & Treas. D. Mackintosh & Sons Co., Holyoke, Mass.	S.R.	Aug. 1, 1923
<b>Mackintosh, D., &amp; Sons Co.</b>	Charles E. Mackintosh, Pres., & Treas., Holyoke, Mass.	Sus.	Aug. 1, 1923
<b>Macy, Andrew W.</b>	Supt. Nashawena Mills, New Bedford, Mass.	Ac.	Apr. 6, 1928

	Elected
<b>Macy, Frederick B.</b> Frederick B. Macy & Co., 222 Union St., New Bedford, Mass.	Ac. Apr. 25, 1901
<b>Maddox, Amos G.</b> Supt. Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. Oct. 18, 1900
<b>Maguire, John P.</b> Pres. Textile Banking Co., Inc., 50 Union Sq., New York City.	S.R. Oct. 27, 1927
<b>Main, Charles T.</b> Mill Engineer, 201 Devonshire St., Boston, Mass.	Ac. Oct. 28, 1885
<b>Mains, Robert</b> 66 Leonard St., New York City.	Ac. Sept. 16, 1916
<b>Makepeace, Alexander</b> Supt. American Printing Co., Fall River, Mass.	Ac. Oct. 1, 1903
<b>Makepeace, Charles R.</b> Mill Engineer, P. O. Box 1146, Providence, R. I.	Ac. Apr. 30, 1890
<b>Makepeace, Charles S.</b> Chas. R. Makepeace & Co., P. O. Box 1146, Providence, R. I.	Ac. Feb. 8, 1921
<b>Mallory, D. S.</b> Treas. Industrial Rayon Corporation, 98th St. and Walford Ave., Cleveland, Ohio.	S.R. Feb. 10, 1928
<b>Malone, Arnold T.</b> Joseph Noone's Sons Co., 105 Washington St., Boston, Mass.	Ac. Oct. 14, 1926
<b>Manley, John Warren</b> Sayles Finishing Plants, Inc., Saylesville, R. I.	Ac. Apr. 30, 1909
<b>Manson, Ernest T.</b> Edward H. Best & Co., 222 Purchase St., Boston, Mass.	As. Oct. 2, 1913
<b>Manville Jenckes Co.</b> Frederick L. Jenckes, Treas., Pawtucket, R. I.	Sus. Mar. 18, 1918
<b>Marble, C. F.</b> Curtis & Marble Machine Co., 72 Cambridge St., Worcester, Mass.	As. Mar. 6, 1925
<b>Marble, Edwin H.</b> Pres. Curtis & Marble Machine Co., Worcester, Mass.	S.R. Apr. 8, 1919
<b>Marble, George Edwin</b> Curtis & Marble Machine Co., 72 Cambridge St., Worcester, Mass.	As. May 1, 1924
<b>Marsh, Henry</b> Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.	As. Apr. 30, 1909
<b>Marston, John P.</b> 247 Atlantic Ave., Boston, Mass.	{ L. Apr. 28, 1904 Apr. 25, 1907
<b>Martin, Edward L.</b> Vice Pres. H. & B. American Machine Co., P. O. Box 678, Pawtucket, R. I.	As. Apr. 25, 1907
<b>Martin, Fay H.</b> Mgr. Woonsocket Machine & Press Co., Woonsocket, R. I.	As. Aug. 10, 1927
<b>Marvin, Charles R.</b> Utica Willowvale Bleaching Co., 320 Broadway, New York City.	Ac. Oct. 2, 1913
<b>Mason, Albert G.</b> Treas. Whitman Mills, New Bedford, Mass.	Ac. Apr. 30, 1909
<b>Mason, Frederic R.</b> 2740 Park Ave., San Diego, California.	Ac. Sept. 21, 1905
<b>Mason, Robert D., Co.</b> Pawtucket, R. I.	Sus. Nov. 1, 1918
<b>Massasoit Mfg. Co.</b> P. S. Palmer, Treas., Fall River, Mass.	Sus. June 20, 1918

		Elected
<b>Mauran, Frank, Jr.</b>	Crompton Co., West Warwick, R. I.	Ac. Jan. 17, 1927
<b>Mayor, John W.</b>	Thomas Mayor & Son, 26 Olney St., Providence, R. I.	As. Sept. 30, 1908
<b>Mead, Chas. E.</b>	Pacific Mills, 24 Thomas St., New York City.	Ac. July 15, 1924
<b>Meehan, George V.</b>	Asst. Treas. Warren Manufacturing Co., Providence, R. I.	Ac. Apr. 16, 1926
<b>Mellor, Leonard H.</b>	Supt. National Rhea Co., Putnam, Conn.	Ac. Aug. 3, 1921
<b>Merchant, John S.</b>	Standard Mill Supply Co., P. O. Box 1534, Providence, R. I.	As. Apr. 30, 1914
<b>Merrill, Gilbert R.</b>	Lowell Textile School, Lowell, Mass.	{ L. Mar. 4, 1927 Apr. 6, 1928
<b>Merrimack Mfg. Co.</b>	Ward Thoron, Treas., 53 State St., Boston, Mass.	Sus. May 10, 1917
<b>Merriman, Chas. H., Jr.</b>	Manville Co., Providence, R. I.	Ac. Apr. 24, 1895
<b>Merriman, James G.</b>	Pres. Oswego Yarn Mills, Inc., Oswego, N. Y.	Ac. Sept. 21, 1905
<b>Metz, Herman A.</b>	Pres. H. A. Metz & Co., 122 Hudson St., New York City.	Ac. Apr. 29, 1915
<b>Midgley, Herbert</b>	Pres. & Gen. Mgr. Howard Bros. Mfg. Co., Worcester, Mass.	S.R. Jan. 22, 1918
<b>Millar, J. R.</b>	Gen. Mgr. California Cotton Mills Co., Oakland, Calif.	Ac. Oct. 29, 1918
<b>Miller, Theodore F.</b>	Treas. Stead & Miller Co., 4th & Cambria Sts., Philadelphia, Pa.	Ac. Oct. 4, 1907
<b>Milliken, Earle L.</b>	Treas. & Gen. Mgr. The Belamose Corp., Rocky Hill, Conn.	S.R. May 13, 1927
<b>Milliken, Joseph K.</b>	Treas. Mount Hope Finishing Co., North Dighton, Mass.	Ac. Sept. 23, 1909
<b>Milliken, Roscoe S.</b>	Con. Agt. Nashua Mfg. Co., Nashua, N. H.	Ac. Apr. 29, 1896
<b>Mills, Charles F.</b>	First National Bank of Boston, 67 Milk St., Boston, Mass.	S.R. Oct. 27, 1927
<b>Minnick, John F.</b>	Slater Mills, Inc., Webster, Mass.	Ac. Sept. 16, 1916
<b>Minot, Hooper &amp; Co.</b>	Thomas W. Slocum, 11 Thomas St., New York City.	Sus. Jan. 1, 1919
<b>Mitchell, John R.</b>	Pres. Mitchell-Bissell Co., Brunswick & Hill Ave., Trenton, N. J.	{ L. Oct. 18, 1900 Apr. 27, 1905
<b>Mitchell, Nathaniel M.</b>	19 Park St., Easthampton, Mass.	{ L. Mar. 2, 1922 Mar. 2, 1922
<b>Mitchell, Robert L.</b>	Treas. Beaver Mills, 102 Worth St., New York City.	Ac. Aug. 3, 1921
<b>Mitchell, William A.</b>	Treas. Houston Textile Mills, Houston, Texas.	Ac. Apr. 25, 1907
<b>Moller, Kenneth</b>	Joseph Bancroft & Sons Co., Wilmington, Del.	Ac. Apr. 29, 1915

		Elected
<b>Montgomery, George M.</b>	Vice Pres. & Sec. The J. R. Montgomery Co., Windsor Locks, Conn.	Ac. Sept. 22, 1904
<b>Montgomery, J. R.</b>	Pres. The J. R. Montgomery Co., Windsor Locks, Conn.	Ac. Sept. 29, 1898
<b>Montgomery, The J. R. Co.</b>	John R. Montgomery, Pres., Windsor Locks, Conn.	Sus. July 17, 1917
<b>Moody, Chas. P.</b>	Supt. Fisher Mfg. Co., Fisherville, Mass.	Ac. Jan. 30, 1925
<b>Moore, W. F.</b>	Geo. E. Damon & Co., 7 Pemberton Sq., Boston, Mass.	{ L. Mar. 2, 1922 Mar. 2, 1922
<b>Morris, Edward N.</b>	The Lawton Mills Corp., 56 Worth St., New York City.	Ac. May 3, 1918
<b>Morrissey, J. F.</b>	Supt. Interlaken Mills, Harris, R. I.	Ac. May 1, 1925
<b>Morse Chain Co.</b>	F. L. Morse, Pres., Ithaca, N. Y. John S. White, Boston, Mass.	Sus. Nov. 1, 1920
<b>Morse, F. L.</b>	Pres. Morse Chain Co., Ithaca, N. Y.	S.R. Nov. 1, 1920
<b>Morton, Albert H.</b>	95 Harvard St., Lowell, Mass.	Ac. Oct. 28, 1891
<b>Morton, Charles</b>	32 Garden St., Pawtucket, R. I.	Ac. May 3, 1918
<b>Morton, William E.</b>	Prof. of Textiles, College of Technology, Manchester, Eng.	Ac. Oct. 14, 1926
<b>Moss, John W.</b>	Supt. Bourne Mills, Fall River, Mass.	Ac. Dec. 6, 1926
<b>Mowry, Earl E.</b>	Sec. J. & P. Coats (R. I.), Inc., Pawtucket, R. I.	Ac. June 8, 1928
<b>Mowry, Harold</b>	Mgr. Sterling Branch, U. S. Finishing Co., Sterling, Conn.	Ac. Apr. 27, 1905
<b>Mulligan, Robert</b>	Treas. J. W. Starkweather Co., 705 Hospital Trust Bldg., Providence, R. I.	As. May 13, 1927
<b>Mumford, Charles M.</b>	17 Stearns St., Newton Centre, Mass.	As. Apr. 26, 1928
<b>Munro, James</b>	c/o J. H. Hanaford, 89 State St., Boston, Mass.	As. Oct. 5, 1920
<b>Murphy, Wilfred C.</b>	Pres. & Treas. Providence Mill Supply Co., 68 West Exchange St., Providence, R. I.	As. Mar. 2, 1923
<b>Murray, Joseph D.</b>	Asst. Treas. Holmes Mfg. Co., New Bedford, Mass.	Ac. Apr. 16, 1926
<b>Murti, E. N.</b>	Tanuku, West Godarari Dist., Pres'y Madras, India.	{ L. Apr. 25, 1912 Apr. 25, 1912
<b>Nashua Mfg. Co.</b>	Frederic Amory, Treas., 48 Franklin St., Boston, Mass.	Sus. Aug. 11, 1917
<b>National Aniline &amp; Chemical Co.</b>	W. M. Vermilye, Executive Vice Pres., 40 Rector St., New York City.	Sus. Jan. 17, 1918

		Elected
<b>National Shawmut Bank of Boston</b>	Sus.	Apr. 26, 1928
John Bolinger, Vice Pres., 40 Water St., Boston, Mass.		
<b>Naumkeag Steam Cotton Co.</b>	Sus.	Aug. 2, 1917
Ernest N. Hood, Treas., Salem, Mass.		
<b>Neild, Eli</b>	Ac.	June 14, 1926
Asst. Supt. Nashawena Mills, New Bedford, Mass.		
<b>Neild, Frank I.</b>	Ac.	May 3, 1918
Pres. Neild Mfg. Corp., New Bedford, Mass.		
<b>Nelson, E. K.</b>	{ L.	May 3, 1918
Pres. Ridley Park National Bank, Ridley Park, Philadelphia, Pa.		June 15, 1918
<b>Nelson, Nils V.</b>	As.	Oct. 14, 1926
N. V. Nelson & Co., 220 Devonshire St., Boston, Mass.		
<b>New Bedford Spinning Co.</b>	Sus.	Apr. 16, 1926
John Catterall, Agent, New Bedford, Mass.		
<b>Newburger, Samuel</b>	As.	May 4, 1920
Samuel Newburger & Co., 60 Beaver St., New York City.		
<b>Newell, A. W.</b>	As.	May 5, 1919
Sec. Hazard Cotton Co., P. O. Box 1394, Providence, R. I.		
<b>Newell, Charles H.</b>	Ac.	Dec. 1, 1921
Asst. Treas. Baltic Mills Co., 510 Turks Head Bldg., Providence, R. I.		
<b>New England Southern Mills</b>	Sus.	Nov. 5, 1917
Allan McNab, Pres., 24 Federal St., Boston, Mass.		
<b>Newmarket Mfg. Co.</b>	Sus.	Dec. 16, 1918
Charles Walcott, Treas., 87 Milk St., Boston, Mass.		
<b>Newport Chemical Wks., Inc.</b>	Sus.	Nov. 10, 1919
Elvin H. Killheffer, Vice Pres., Passaic, N. J.		
<b>Newton, Henry Arthur</b>	Ac.	Apr. 24, 1923
Supt. Pacific Mills, Coheco Dept., Dover, N. H.		
<b>Newton, Jewett B.</b>	Ac.	Mar. 4, 1927
Androscoggin Mills, 77 Franklin St., Boston, Mass.		
<b>Newton, J. Edward</b>	Ac.	Sept. 16, 1916
Treas. Barnard Mfg. Co., Fall River, Mass.		
<b>New York Mills Corp.</b>	Sus.	Feb. 10, 1920
A. F. Hobbs, Vice Pres., New York Mills, N. Y.		
<b>Nichols, Charles B.</b>	Ac.	Oct. 14, 1925
Asst. Treas. Otis Company, Three Rivers, Mass.		
<b>Nichols, George</b>	Ac.	Sept. 11, 1916
Minot, Hooper & Co., 11 Thomas St., New York City.		
<b>Nichols, George</b>	S.R.	Dec. 5, 1918
Treas. Dwight Mfg. Co., Chicopee, Mass.		
<b>Nichols, Henry G.</b>	Ac.	June 1, 1923
Treas. Otis Co., 24 Milk St., Boston, Mass.		
<b>Nichols, Henry W.</b>	Ac.	Oct. 20, 1917
Principal, Bradford Durfee Textile School, Durfee and Banks Sts., Fall River, Mass.		
<b>Nichols, Howard S. O.</b>	Ac.	Sept. 29, 1911
Treas. Great Falls Mfg. Co., 53 State St., Boston, Mass.		
<b>Nichols, Rodman A.</b>	As.	May 3, 1918
Nichols & Read, 12 Pearl St., Boston, Mass.		
<b>Nichols, William G.</b>	Ac.	Oct. 25, 1893
Vice Pres. & Gen. Mgr. Griffin Mfg. Co., Griffin, Ga.		

		Elected
<b>Nivling, W. A.</b>	As.	May 4, 1920
Huron Milling Co., 73 Tremont St., Boston, Mass.		
<b>Noone, Albert W.</b>	Ac.	Sept. 26, 1901
Joseph Noone's Sons Co., Peterboro, N. H.		
<b>Norton, William A.</b>	Ac.	Oct. 27, 1927
Manville Jenckes Company, Georgiaville, R. I.		
<b>Nyanza Mills</b>	Sus.	Jan. 14, 1919
Nathaniel F. Ayer, Treas., 77 Franklin St., Boston, Mass.		
<b>Odenheimer, S.</b>	Ac.	Oct. 25, 1893
Pres. Lane Cotton Mills Co., New Orleans, La.		
<b>O'Donnell, J. Joseph</b>	As.	Apr. 15, 1927
P. T. Jackson Co., 41 Pearl St., Boston, Mass.		
<b>O'Leary, Arthur L.</b>	As.	Apr. 16, 1926
Treas. Lambeth Rope Corp., P. O. Box 760, New Bedford, Mass.		
<b>O'Malley, Charles J.</b>	{ L.	Apr. 24, 1913
Pres. O'Malley Advertising & Selling Co., 244 Washington St., Boston, Mass.		
<b>O'Meara, James J.</b>	Ac.	Nov. 13, 1924
Supt. Fitchburg Yarn Company, Fitchburg, Mass.		
<b>Osborn, James E.</b>	Ac.	Apr. 27, 1916
Treas. Merchants Mfg. Co., Fall River, Mass.		
<b>Osborne, G. Gordon</b>	Jr. Tech.	Oct. 27, 1927
Lowell Textile School, Lowell, Mass.		
<b>Oswald, John G.</b>	Ac.	June 1, 1923
Gen. Mgr. Nyanza Mills, Woonsocket, R. I.		
<b>Otis Company</b>	Sus.	Nov. 12, 1917
Henry G. Nichols, Treas., 24 Milk St., Boston, Mass.		
<b>Otte, Henry</b>	Ac.	May 3, 1921
Asst. Treas. The Ninigret Co., Pawtucket, R. I.		
<b>Otto, Hans</b>	Ac.	Oct. 3, 1924
c/o Heinrich Otto, Heichenbach, a.d. Fils, Wuerttemberg, Germany.		
<b>Owen, Charles D.</b>	S.R.	Nov. 7, 1917
Treas. Beacon Mfg. Co., New Bedford, Mass.		
<b>Owen, Harry C.</b>	As.	May 1, 1925
Vice Pres. Industrial Trust Co., Providence, R. I.		
<b>Pacific Mills</b>	Sus.	May 18, 1917
Edwin Farnham Greene, Treas., 24 Federal St., Boston, Mass.		
<b>Paige, Walter H.</b>	Ac.	Nov. 23, 1925
Supt. Maverick Mills, E. Boston, Mass.		
<b>Paine, Sidney B.<sup>1</sup></b>	Hon.	Apr. 16, 1926
59 Hancock St., Auburndale, Mass.		
<b>Paine, Sidney L.</b>	Tech.	Apr. 15, 1927
8 Cliff Street, Winchester, Mass.		
<b>Paine, Sidney S.</b>	Ac.	Apr. 27, 1916
Pres. The Textile Development Co., 80 Federal St., Boston, Mass.		
<b>Palmer, Edward E.</b>	As.	June 2, 1922
General Electric Co., 84 State St., Boston, Mass.		
<b>Palmer, P. S.</b>	S.R.	June 20, 1918
Treas. Massasoit Mfg. Co., Fall River, Mass.		

<sup>1</sup> Member of the Association since April 24, 1895.



			Elected
<b>Palmer, Townsend</b>	Sec.-Treas. The I. E. Palmer Co., Middletown, Conn.	Ac.	Apr. 30, 1909
<b>Parker, J. Earle</b>	Treas. Acadia Mills, 78 Chauncy St., Boston, Mass.	Ac.	Feb. 2, 1923
<b>Parker, Wilder &amp; Co.</b>	Wm. D. Judson, 78 Leonard St., New York City.	Sus.	Nov. 23, 1918
<b>Parker, Winthrop</b>	Supt. Cotton Mfg. Amoskeag Mfg. Co., Manchester, N. H.	Ac.	Sept. 30, 1908
<b>Parks-Cramer Co.</b>	R. S. Parks, Treas., Fitchburg, Mass.	Sus.	May 11, 1917
<b>Parks, R. S.</b>	Parks-Cramer Co., Fitchburg, Mass.	S.R.	May 11, 1917
<b>Parsons, Brackett</b>	Asst. Treas. Lewiston Bleachery & Dye Works, 160 State St., Boston, Mass.	Ac.	Apr. 24, 1923
<b>Parsons, Winslow A.</b>	Treas. Richmond Lace Wks., 99 Chauncy St., Boston, Mass.	Ac.	May 3, 1918
<b>Patterson, John L.</b>	P. O. Box 1481, Richmond, Va.	Ac.	Apr. 13, 1911
<b>Payne, George F.</b>	16 Fremont St., Putnam, Conn.	Ac.	Apr. 28, 1910
<b>Payson, C. C.</b>	Clark, Payson & Co., 19 Pearl St., Boston, Mass.	As.	Sept. 30, 1914
<b>Peabody, W. Rodman</b>	Treas. Suncook Mills, 70 State St., Boston, Mass.	S.R.	Aug. 1, 1923
<b>Pearson, John A.</b>	The Esmond Mills, 21 East 26th St., New York City.	Ac.	Apr. 30, 1914
<b>Pease, Chester C.</b>	Agent, Otis Company, Columbian Mills, Greenville, N. H.	Ac.	Feb. 10, 1928
<b>Pedler, William A.</b>	Agt. Acadia Mills, Lawrence, Mass.	Ac.	Apr. 30, 1914
<b>Pennock, Gilbert V.</b>	Eustis, Pennock & Co., 118 Old Colony Ave., Wollaston, Mass.	As.	Sept. 11, 1915
<b>Pepler, Herbert H.</b>	Agt. Paco Mfg. Co., Danielson, Conn.	Ac.	June 5, 1925
<b>Pepperell Mfg. Co.</b>	Russell H. Leonard, Treas., 160 State St., Boston, Mass.	Sus.	Dec. 17, 1917
<b>Pepperell, William S.</b>	Treas. Warren Mfg. Co., P. O. Box 1384, Providence, R. I.	Ac.	Mar. 2, 1922
<b>Perkins, John A.</b>	Agt. Harmony Mills, Cohoes, New York.	Ac.	Apr. 28, 1910
<b>Perkins, Ralph C.</b>	23 Pleasant St., So. Dartmouth, Mass.	Ac.	Apr. 28, 1910
<b>Perry, Joseph L.</b>	Supt. Suncook Mills, Suncook, N. H.	Ac.	Apr. 6, 1928
<b>Peugnet, Ramsay</b>	Sec. U. S. Testing Co., Inc., 468 Fourth Ave., New York City.	Ac.	Apr. 17, 1908
<b>Phillips, William D.</b>	Supt. Naumkeag Steam Cotton Co., 347 Lafayette St., Salem, Mass.	Ac.	Apr. 30, 1914
<b>Pierce, Albert R.</b>	Supt. Pierce Mfg. Corp., New Bedford, Mass.	Ac.	Oct. 5, 1899

		Elected
<b>Pierce, Andrew G., Jr.</b>	Treas. Pierce Mfg. Corp., P. O. Box 733, New Bedford, Mass.	Ac. Apr. 23, 1895
<b>Pierce Mfg. Corp.</b>	Andrew G. Pierce, Jr., Treas., New Bedford, Mass.	Sus. Dec. 3, 1917
<b>Piggott, E. B. G.</b>	Asst. Treas. Waypoysset Mfg. Co., Central Falls, R. I.	S.R. Jan. 28, 1919
<b>Pilgrim Mills</b>	Arthur C. Homer, Treas., Fall River, Mass.	Sus. July 17, 1917
<b>Pinckney, Henry R.</b>	Supt. Lincoln Bleachery & Dye Works, Lonsdale, R. I.	Ac. June 14, 1926
<b>Pingree, A. E.</b>	Supt. Ponemah Mills, Taftville, Conn.	Ac. Apr. 4, 1924
<b>Pond Lily Co., The</b>	William C. Harmon, Pres., New Haven, Conn.	Sus. Aug. 21, 1917
<b>Ponemah Mills</b>	J. Arthur Atwood, Treas., 930 Hospital Trust Bldg., Providence, R. I.	Sus. Mar. 18, 1918
<b>Porteous, John</b>	Pres. The Lawton Mills Corp., Plainfield, Conn.	Ac. May 3, 1918
<b>Potomska Mills Corp.</b>	Chas. E. Brady, Treas., New Bedford, Mass.	Sus. Nov. 21, 1918
<b>Potter, Carl H.</b>	Green River Mfg. Co., Tuxedo, N. C.	Ac. Nov. 5, 1918
<b>Potter, Charles H.</b>	Gen. Supt. The Montreal Cottons, Ltd., Valleyfield, Quebec, Canada.	Ac. Apr. 25, 1901
<b>Pratt, Edward S.</b>	Vice Pres. Samson Cordage Wks., 88 Broad St., Boston, Mass.	Ac. Apr. 26, 1917
<b>Prentice, Robert W.</b>	Treas. Butler, Prentice & Co., Inc., 320 Broadway, New York City.	Ac. Apr. 24, 1913
<b>Prest, George E.</b>	Agt. Suncook Mills, Suncook, N. H.	Ac. Apr. 24, 1902
<b>Pritchett, Henry Smith, LL.D.</b>	The Carnegie Foundation, 522 Fifth Ave., New York City.	Hon. Sept. 26, 1901
<b>Prosser, Isaac T.</b>	Mgr. Chicopee Mfg. Corp., Chicopee Falls, Mass.	Ac. Apr. 25, 1912
<b>Puckett, Henry B.</b>	Asst. Treas. Goodyear Cotton Mills, Inc., Goodyear, Conn.	Ac. Oct. 14, 1926
<b>Putnam, G. Endicott</b>	Minot, Hooper & Co., 11 Thomas St., New York City.	As. Aug. 10, 1927
<b>Queen City Cotton Co.</b>	Andrew McLean Young, Treas., Burlington, Vt.	Sus. Apr. 24, 1918
<b>Quinebaug Co., The</b>	Frank B. Ricketson, Asst. Treas., Danielson, Conn.	Sus. Sept. 10, 1918
<b>Quinn, Frederick J.</b>	Treas. Atlas Yarn Co., 161 Devonshire St., Boston, Mass.	Ac. Apr. 26, 1906
<b>Quinn, Patrick H.</b>	Treas. Warwick Lace Wks., Riverpoint, R. I.	Ac. May 3, 1918
<b>Quinton, W. W.</b>	Agt. Lockwood Co., Waterville, Me.	Ac. July 15, 1923

		Elected	
<b>Rae, Benjamin G.</b>	Treas. Futurity Thread Co., 80 Bridge St., Newton, Mass.	Ac.	Apr. 29, 1915
<b>Raeburn, Andrew</b>	Sec. New Bedford Cotton Mfrs. Assn., Masonic Bldg., New Bedford, Mass.	Ac.	Apr. 24, 1923
<b>Ramsdell, Theodore E.</b>	Agt. Monument Mills, Housatonic, Mass.	Ac.	Apr. 23, 1903
<b>Rawlinson, M. A.</b>	Agt. Tremont and Suffolk Mills, Lowell, Mass.	Ac.	Apr. 24, 1895
<b>Raymond, Charles P.</b>	Chas. P. Raymond Textile Service, Inc., 294 Washington St., Boston, Mass.	As.	Apr. 29, 1915
<b>Reaber, Karl, Jr.</b>	R. F. D. No. 1, Apponaug, R. I.	Jr. Tech.	Jan. 17, 1927
<b>Reardon, John F.</b>	Agt. Grosvenor-Dale Co., No. Grosvenor-Dale, Conn.	Ac.	Sept. 8, 1922
<b>Redman, H. Stewart</b>	Agt. Palmer Mills, Three Rivers, Mass.	Ac.	Apr. 27, 1916
<b>Rennie, T. H.</b>	Vice Pres. Avondale Mill, Pell City, Ala.	Ac.	Oct. 18, 1900
<b>Reoch, Robert A. S.</b>	Gen. Supt. Pacific Mills, Print Works Dept., Lawrence, Mass.	Ac.	Sept. 17, 1910
<b>Reynolds, Arthur W.</b>	Lockwood, Greene & Co., Inc., 24 Federal St., Boston, Mass.	Ac.	June 14, 1926
<b>Reynolds, Frank W.</b>	Vice Pres. Lockwood, Greene & Co., Inc., Boston, Mass.	S.R.	Sept. 27, 1917
<b>Reynolds, Frederic W.</b>	25 Walnut St., Stoughton, Mass.	Ac.	Apr. 26, 1900
<b>Reynolds, Harrison G.</b>	Pepperell Mfg. Company, 160 State St., Boston, Mass.	Ac.	Apr. 6, 1928
<b>Rice, Raymond A.</b>	Treas. Southbridge Printing Co., Southbridge, Mass.	Ac.	Oct. 20, 1917
<b>Richards, Earl L.</b>	Supt. Whitin Bros., Linwood Mill, Linwood, Mass.	Ac.	June 8, 1928
<b>Richardson, Charles O.</b>	Warwick Mills, 201 Devonshire St., Boston, Mass.	Ac.	Apr. 25, 1912
<b>Richardson, E. R.</b>	Treas. H & B American Machine Co., P. O. Box 678, Pawtucket, R. I.	Ac.	Apr. 13, 1911
<b>Richardson, Harry</b>	Supt. Aldrich Bros. Co., Moosup, Conn.	Ac.	Nov. 3, 1921
<b>Richmond, Lawrence</b>	Asst. Treas. Crompton Company, Arctic, R. I.	Ac.	Jan. 30, 1925
<b>Ricketson, Frank B.</b>	Asst. Treas. The Quinebaug Co., Providence, R. I.	Ac.	Apr. 13, 1911
<b>Riley, Charles E.</b>	Pres. H & B American Machine Co., 161 Devonshire St., Boston, Mass.	Ac.	Apr. 25, 1888
<b>Riley, Richard G.</b>	Supt. King Philip Mills, Fall River, Mass.	Ac.	Apr. 25, 1907
<b>Ritter, William H.</b>	Asst. Sec. Chicopee Mfg. Corp., 266 George St., New Brunswick, N. J.	{ L.	May 3, 1918 June 15, 1918

		Elected
<b>Rivitz, Hiram S.</b>	Pres. Industrial Rayon Corporation, 98th St. and Walford Ave., Cleveland, Ohio.	S.R. Feb. 10, 1928
<b>Robbins, Charles H.</b>	Supt. Manomet Mill, No. 4, New Bedford, Mass.	Ac. May 3, 1918
<b>Roberts, George N.</b>	Vice Pres. Bemis Bro. Bag Co., Boston, Mass.	S.R. June 6, 1917
<b>Roberts, Joseph</b>	P. O. Box 309, Fall River, Mass.	Ac. May 3, 1918
<b>Robertson, George W.</b>	Gen. Supt. Riverside & Dan River Cotton Mills, Danville, Va.	Ac. Apr. 26, 1906
<b>Robertson, William H.</b>	Treas. The Robertson Bleachery & Dye Wks., Inc., New Milford, Conn.	Ac. Sept. 16, 1916
<b>Robinson, C. M.</b>	Agt. The Wauregan Co., Wauregan, Conn.	Ac. June 29, 1920
<b>Rockwell, Foster</b>	Smith, Graham & Rockwell, 50 Broadway, New York City.	As. Mar. 6, 1925
<b>Rockwood, George I.</b>	Rockwood Sprinkler Co., 38-56 Harlow St., Worcester, Mass.	{ Ac. Apr. 25, 1901 L. Apr. 25, 1901
<b>Rodman, Lee</b>	Pres. & Treas. Indiana Cotton Mills, Cannelton, Ind.	Ac. Sept. 17, 1910
<b>Rogers, Leon B.</b>	Treas. Rogers Fibre Co., 210 Lincoln St., Boston, Mass.	As. Oct. 20, 1917
<b>Rooney, George W.</b>	Supt. New Hampshire Spinning Mills, 31 Canal St., Penacook, N. H.	Ac. Sept. 30, 1914
<b>Rose, Harry</b>	Pacific Mills, Lawrence, Mass.	Ac. Apr. 6, 1928
<b>Rousmaniere, John E.</b>	Lawrence & Co., 24 Thomas St., New York City.	Ac. Apr. 13, 1911
<b>Rowe, F. E., Jr.</b>	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As. Apr. 24, 1923
<b>Rowley, Frank G.</b>	260 Central Ave., Pawtucket, R. I.	{ Oct. 20, 1917 L. Nov. 20, 1917
<b>Royal Mfg. Co.</b>	Ira A. Stone, Vice Pres., Rahway, N. J.	Sus. Nov. 13, 1924
<b>Rudloff, John A.</b>	Whitman Mills, New Bedford, Mass.	Ac. June 5, 1925
<b>Rusden, E. A.</b>	Pres. The Textile-Finishing Machinery Co., 83 Exchange Pl., Providence, R. I.	As. Sept. 21, 1905
<b>Russell, Howard I.</b>	Russell Mfg. Co., Manchester, N. H.	Ac. Apr. 13, 1911
<b>Saco-Lowell Shops</b>	D. F. Edward, Pres., 147 Milk St., Boston, Mass.	Sus. May 18, 1917
<b>Safford, Arthur Truman</b>	66 Broadway, Lowell, Mass.	Ac. Nov. 12, 1919
<b>Sagar, Alfred</b>	Treas. Bolton Worsted Mill, Inc., Methuen, Mass.	Ac. Apr. 24, 1902
<b>Salisbury, Everett E.</b>	Agt. Atlantic Mills, Providence, R. I.	Ac. Sept. 30, 1908

		Elected	
<b>Sanborn, W. K.</b>	Ac.	Apr. 25, 1907	
Supt. American Net & Twine Co., R. W. Lord Mill, West Kennebunk, Me.			
<b>Sanford, Pardon B.</b>	Ac.	Oct. 2, 1902	
Supt. Chalmers Knitting Co., Amsterdam, N. Y.			
<b>Saraiya, Anandji L.</b>	Jr. Tech.	Feb. 10, 1928	
35 Mt. Vernon Street, Lowell, Mass.			
<b>Saulnier, E. T.</b>	Ac.	Aug. 10, 1927	
Gen. Supt. Boston Mfg. Company, Waltham, Mass.			
<b>Schaellibaum, Robert</b>	{ L.	Sept. 22, 1904	
11 W. Vance St., Charlotte, N. C.		Sept. 22, 1904	
<b>Schloss, Frederick H.</b>	Ac.	Jan. 11, 1926	
Pres. & Gen. Mgr. Darlington Textile Co., Pawtucket, R. I.			
<b>Schofield, James</b>	Ac.	May 4, 1920	
89 Broad St., Valley Falls, R. I.			
<b>Scott, Albert L.</b>	Ac.	Sept. 11, 1912	
Pres. Lockwood, Greene & Co., Inc., 24 Federal St., Boston, Mass.			
<b>Scott, David C.</b>	As.	May 4, 1920	
Henry L. Scott & Co., P. O. Box 963, Providence, R. I.			
<b>Scull, Frank R.</b>	As.	Aug. 10, 1927	
Asst. Sales Mgr. Du Pont Rayon Company, 132 Madison Ave., New York City.			
<b>Seabury, Arthur G.</b>	As.	Apr. 16, 1926	
Treas. New Bedford Shuttle Co., New Bedford, Mass.			
<b>Seabury, Dwight</b>	As.	Apr. 25, 1901	
Dwight Seabury Co., 12 East Ave., Pawtucket, R. I.			
<b>Seaton, Thomas J.</b>	Ac.	Nov. 1, 1923	
Vice Pres. & Supt. The Floyd Cranska Co., Moosup, Conn.			
<b>Selley, William H.</b>	Ac.	Sept. 30, 1927	
Supt. The Lawton Mills Corp., Plainfield, Conn.			
<b>Sergeson, Allan M.</b>	As.	June 5, 1925	
R. Sergeson & Co., Philadelphia, Pa.			
<b>Shackelford, Harry W.</b>	Ac.	Apr. 6, 1928	
Supt. Danvers Bleachery, Peabody, Mass.			
<b>Shaw, A. F.</b>	S.R.	June 14, 1926	
Pres. Greenville Finishing Co., Greenville, R. I.			
<b>Shaw, Benjamin C.</b>	Ac.	Oct. 29, 1918	
Asst. Agt. Boston Duck Mills of the Otis Co., Bondsville, Mass.			
<b>Shaw, John F.</b>	Ac.	Apr. 16, 1926	
Supt. Great Falls Mfg. Co., Somersworth, N. H.			
<b>Shawmut Mills</b>	Sus.	Dec. 3, 1918	
Richard B. Chace, Treas., Fall River, Mass.			
<b>Sheldon, Arthur N.</b>	As.	Sept. 13, 1906	
F. P. Sheldon & Son, 1009 Hospital Trust Bldg., Providence, R. I.			
<b>Shockley, U. Morris</b>	Ac.	Aug. 10, 1927	
Vice Pres. B. B. & R. Knight Corp., 88 Worth St., New York City.			
<b>Shove, W. Frank</b>	Ac.	Sept. 22, 1904	
Treas. Pocasset Mfg. Co., Fall River, Mass.			
<b>Simonds, Henry G.</b>	Ac.	Apr. 16, 1926	
Pacific Mills, 24 Federal St., Boston, Mass.			

		Elected
<b>Sinclair, James</b>	Treas. Charlton Mills, Fall River, Mass.	S.R. Jan. 14, 1919
<b>Skinner, John</b>	Treas. Harmony Mills, Cohoes, N. Y.	Ac. Apr. 26, 1906
<b>Slater, H. Nelson</b>	Pres. S. Slater & Sons, Inc., 361 Broadway, New York City.	S.R. June 6, 1924
<b>Slater, S., &amp; Sons, Inc.</b>	H. Nelson Slater, Pres., 361 Broadway, New York City.	Sus. June 6, 1924
<b>Slocum, Charles P.</b>	Corn Products Refining Co., 47 Farnsworth St., Boston, Mass.	S.R. Mar. 2, 1918
<b>Slocum, Thomas W.</b>	Minot, Hooper & Co., 11 Thomas St., New York City.	S.R. Jan. 1, 1919
<b>Smith, Abbott M.</b>	420 Acushnet Ave., New Bedford, Mass.	As. Apr. 24, 1923
<b>Smith, Abbott P.</b>	791 Purchase St., New Bedford, Mass.	As. Sept. 13, 1906
<b>Smith, Albert E.</b>	Agt. New Bedford & Agawam Finishing Co., East Warcham, Mass.	Ac. Dec. 7, 1923
<b>Smith, Albert G.</b>	Agt. Grant Yarn Co., Fitchburg, Mass.	Ac. Apr. 30, 1909
<b>Smith, Archer J.</b>	Pres. The American Mills Co., Waterbury, Conn.	Ac. Apr. 26, 1906
<b>Smith, D. Allen</b>	Mgr. Alexander Sprunt & Son, Inc., 45 Franklin St., Boston, Mass.	S.R. Oct. 18, 1923
<b>Smith, Frederick K.</b>	Kilburn Mill, New Bedford, Mass.	Ac. Apr. 24, 1923
<b>Smith, Henry Kay</b>	500 East 6th St., Jamestown, N. Y.	{ Oct. 4, 1907 L. Jan. 17, 1927
<b>Smith, J. Foster</b>	Agt. Naumkeag Steam Cotton Co., Salem, Mass.	Ac. May 3, 1918
<b>Smith, Robert P.</b>	Smith, Drum & Co., Alleghany Ave. & 5th St., Philadelphia, Pa.	As. Apr. 24, 1923
<b>Smith, Thomas Henry</b>	500 East 6th St., Jamestown, N. Y.	Ac. Apr. 30, 1884
<b>Smith, William</b>	Prin. New Bedford Textile School, New Bedford, Mass.	Ac. May 3, 1921
<b>Smyth, Ellison A.</b>	Hendersonville, N. C.	Ac. Apr. 13, 1911
<b>Sneddon, George</b>	Supt. Grinnell Mfg. Corp., New Bedford, Mass.	Ac. Apr. 25, 1912
<b>Snowden, George L.</b>	Mgr. Cotton Dept. H. Hentz & Company, 60 Beaver St., New York City.	S.R. Apr. 26, 1928
<b>Sommaripa, Alexis</b>	Du Pont Rayon Co., Buffalo, N. Y.	Ac. July 30, 1926
<b>Soucy, Ernest W.</b>	Atlas Plywood Corp., 934 Park Square Bldg., Boston, Mass.	As. Apr. 6, 1923
<b>Soule Mill</b>	Fred H. McDevitt, Agent, New Bedford, Mass.	Sus. Nov. 27, 1918
<b>Soule, Rufus A., Jr.</b>	Treas. Soule Mill, New Bedford, Mass.	Ac. Apr. 26, 1906

		Elected
<b>Southworth, Irving</b>	Ac.	Apr. 13, 1911
Agt. Pacific Mills, Lawrence, Mass.		
<b>Southworth, W. Brewster</b>	S.R.	Apr. 26, 1928
F. B. Keech & Co., 30 State St., Boston, Mass.		
<b>Spence, Henry C.</b>	As.	Apr. 24, 1895
Indian Orchard, Mass.		
<b>Spencer, Antonio</b>	Ac.	May 3, 1918
Pres. U. S. Ring Traveler Co., 17 Exchange St., Providence, R. I.		
<b>Spofford, George E.</b>	Ac.	Apr. 29, 1896
Pres. Langley Mills, Langley, S. C.		
<b>Sprunt, Alexander, &amp; Co. of Boston, Inc.</b>	Sus.	Oct. 18, 1923
D. Allen Smith, Mgr., 45 Franklin St., Boston, Mass.		
<b>Stackhouse, Clarence D.</b>	As.	Nov. 13, 1924
Geo. H. McFadden & Bros., Providence, R. I.		
<b>Stafford Co., The</b>	Sus.	Apr. 1, 1918
George P. Erhard, Pres., Readville, Mass.		
<b>Stanton, J. E., Jr.</b>	S.R.	Nov. 21, 1918
Treas. Hathaway Mfg. Co., New Bedford, Mass.		
<b>Staples, Willard F.</b>	Ac.	Apr. 16, 1926
Wamsutta Mills, New Bedford, Mass.		
<b>Stark Mills</b>	Sus.	June 1, 1923
F. Hartwell Greene, Treas., 24 Federal St., Boston, Mass.		
<b>Stearns, George R.</b>	Ac.	Apr. 30, 1890
Pres. Riverside Mills, Augusta, Ga.		
<b>Stearns, Walter H.</b>	Ac.	May 5, 1922
P. O. Box 475, Pawtucket, R. I.		
<b>Steele, Fred W.</b>	Ac.	Sept. 11, 1912
Treas. York Mfg. Co., 141 Milk St., Boston, Mass.		
<b>Steere, Robert E.</b>	Ac.	July 10, 1925
Supt. Lorraine Mfg. Co., Pawtucket, R. I.		
<b>Steere, Samuel A.</b>	Ac.	Oct. 5, 1920
Mgr. Cotton & Fabric Div., The Goodyear Tire & Rubber Co., Akron, Ohio.		
<b>Steinbach, Winthrop E.</b>	Ac.	Aug. 3, 1921
1 Hopson St., Utica, N. Y.		
<b>Stevens, Dexter</b>	Ac.	Apr. 25, 1907
Mgr. The Esmond Mills, Esmond, R. I.		
<b>Stevens, John A.</b>	Ac.	Apr. 25, 1907
Consulting Engineer, 16 Shattuck St., Lowell, Mass.		
<b>Stevens Mfg. Co.</b>	Sus.	Aug. 20, 1917
Charles B. Chase, Gen. Mgr., Fall River, Mass.		
<b>Stewart, Samuel</b>	Ac.	Apr. 23, 1903
Agt. Bates Mfg. Co., Lewiston, Me.		
<b>Stimpson, Wallace I.</b>	As.	Sept. 21, 1905
Agt. Draper Corp., Hopedale, Mass.		
<b>Stoddard, Wallace E.</b>	Ac.	June 29, 1920
Asst. Treas. Berkshire Cotton Mfg. Co., Adams, Mass.		
<b>Stokes, Edward C.</b>	Hon.	Sept. 21, 1905
P. O. Box 131, Trenton, N. J.		
<b>Stone, Ira A.</b>	S.R.	Nov. 13, 1924
Vice Pres. Royal Mfg. Co., Rahway, N. J.		

		Elected
<b>Stone, Kenneth G.</b>	Dana Warp Mills, Westbrook, Me.	Ac. Apr. 15, 1927
<b>Stone, Malcolm B.</b>	Treas. Ludlow Mfg. Associates, 80 Federal St., Boston, Mass.	Ac. Apr. 25, 1912
<b>Storrow, Charles &amp; Co.</b>	Edward C. Storrow, 602 Exchange Bldg., Boston, Mass.	Sus. Mar. 6, 1925
<b>Storrow, E. C.</b>	Charles Storrow & Co., 602 Exchange Bldg., Boston, Mass.	S.R. Mar. 6, 1925
<b>Strang, James</b>	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As. Oct. 28, 1897
<b>Straw, Herman F.</b>	Cons. Engineer, Amoskeag Mfg. Co., Manchester, N. H.	Ac. Oct. 28, 1885
<b>Straw, William Parker.</b>	Agt. Amoskeag Mfg. Co., Manchester, N. H.	Ac. Oct. 4, 1907
<b>Strongman, John B.</b>	Treas. City Mfg. Corp., New Bedford, Mass.	Ac. Apr. 26, 1917
<b>Sturtevant, Harold B.</b>	Asst. Supt. Bellman Brook Bleaching Co., Fairview, N. J.	Ac. Oct. 3, 1924
<b>Sullivan, John</b>	Agt. Taber Mill, New Bedford, Mass.	Ac. Apr. 27, 1899
<b>Summersby, George</b>	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac. Sept. 21, 1925
<b>Suncook Mills</b>	W. Rodman Peabody, Treas., 70 State St., Boston, Mass.	Sus. Aug. 1, 1923
<b>Sweet, Chas. A.</b>	Wellington, Sears & Co., 93 Franklin St., Boston, Mass.	Ac. Sept. 21, 1925
<b>Sweetser, John A.</b>	Pres. Bigelow, Hartford Carpet Co., 335 Madison Ave., New York City.	Ac. June 5, 1925
<b>Swift, Arthur Clinton</b>	Gen. Mgr. Sharp Manufacturing Co., New Bedford, Mass.	Ac. Apr. 6, 1923
<b>Swift, E. Kent</b>	Treas. Whittin Machine Works, Whitinsville, Mass.	S.R. Nov. 1, 1918
<b>Swope, Gerard</b>	Pres. General Electric Co., 120 Broadway, New York City.	S.R. May 24, 1917
<b>Taber, Frederick</b>	Pres. Taber Mill, New Bedford, Mass.	Ac. Apr. 26, 1906
<b>Taber Mill</b>	John Sullivan, Agent, New Bedford, Mass.	Sus. May 17, 1917
<b>Tabor, Charles A.</b>	Agent, Thorndike Co., West Warren, Mass.	Ac. Apr. 27, 1905
<b>Taft, Royal C.</b>	Treas. Coventry Co., P. O. Box 1364, Providence, R. I.	Ac. May 13, 1927
<b>Takatsuji, Narazo</b>	Karasumaru-dori Imadegawaagaru, Kyoto, Japan.	Ac. Apr. 17, 1908
<b>Tarr, Henry M.</b>	Traffic Mgr. Textile Traffic Assn., 13 Market Sq., Providence, R. I.	Ac. June 2, 1922
<b>Taylor, Aldrich</b>	Pacific Mills, 24 Thomas St., New York City.	Ac. Apr. 26, 1928



		Elected
<b>Taylor, Daniel L.</b>	Traffic Mgr. Pacific Mills, 24 Federal St., Boston, Mass.	Ac. June 2, 1922
<b>Taylor, Havila B.</b>	193 Bailey St., Lawrence, Mass.	Ac. Oct. 29, 1918
<b>Taylor, James W.</b>	Agt. Fuld & Hatch Knitting Co., P. O. Box 83, Cohoes, N. Y.	Ac. Oct. 26, 1892
<b>Taylor, Samuel</b>	Supt. Bristol Mfg. Co., New Bedford, Mass.	Ac. Oct. 1, 1903
<b>Temple, Chas. S.</b>	Gere-Temple Company, 178 Federal St., Boston, Mass.	S.R. Oct. 27, 1927
<b>Tenney, Ashton M.</b>	American Benberg Corp., 180 Madison Ave., New York City.	Ac. Dec. 21, 1928
<b>Tenney, George A.</b>	Treas. Monadnock Mills, Claremont, N. H.	Ac. Sept. 29, 1911
<b>Textile Banking Co., Inc.</b>	John P. Maguire, Pres., 50 Union Sq., New York City.	Sus. Oct. 27, 1927
<b>Textile Development Co., The</b>	Sidney S. Paine, Pres., 80 Federal St., Boston, Mass.	Sus. May 1, 1925
<b>Thatcher, Albert G.</b>	Chairman of Board, Standard-Coosa-Thatcher Co., Philadelphia, Pa.	Ac. Apr. 27, 1916
<b>Thayer, Gay D.</b>	82 Elm St., Worcester, Mass.	As. Apr. 25, 1907
<b>Thayer, Nathaniel N.</b>	Barry, Thayer & Co., 30 Kilby St., Boston, Mass.	As. Apr. 13, 1911
<b>Thoma, M. Frederick</b>	Fitchburg Yarn Co., 520 Main St., Fitchburg, Mass.	Ac. Jan. 17, 1927
<b>Thomas, Norman T.</b>	Agent, Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. Oct. 16, 1919
<b>Thompson, Albert W.</b>	Parks-Cramer Co., 1102 Old South Bldg., Boston, Mass.	Ac. Apr. 30, 1909
<b>Thompson, Gilbert T.</b>	Treas. Berkshire Cotton Mfg. Co., Adams, Mass.	Ac. Apr. 30, 1914
<b>Thompson, Henry B.</b>	Pres. U. S. Finishing Co., 40 Worth St., New York City.	Ac. May 3, 1918
<b>Thompson, James O., Jr.</b>	Agt. New Bedford Cotton Mills Corp., New Bedford, Mass.	Ac. Oct. 18, 1900
<b>Thompson, Philip E.</b>	44 Maple St., New Bedford, Mass.	Ac. Feb. 5, 1926
<b>Thomson, Charles R.</b>	Asst. Treas. Solway Dyeing & Textile Co., 222 Central Ave., Pawtucket, R. I.	Ac. Apr. 27, 1905
<b>Thomson, James</b>	Asst. Treas. Dwight Mfg. Co., 53 State St., Boston, Mass.	Ac. Apr. 25, 1907
<b>Thoron, Ward</b>	Treas. Merrimack Mfg. Co., P. O. Box 5209, Boston, Mass.	Ac. May 4, 1920
<b>Tift, Emerson B.</b>	Asst. Supt. Harmony Mills, Cohoes, N. Y.	Ac. Mar. 7, 1924
<b>Tilton, Newell W.</b>	Harding, Tilton & Co., 50 Union Sq., New York City.	S.R. Dec. 17, 1917

		Elected
<b>Tobin, John E.</b>	Ac.	June 4, 1919
Supt. Butler Mill, New Bedford, Mass.		
<b>Todd, W. O.</b>	Ac.	Oct. 18, 1900
Pres. & Treas. Pocasset Worsted Co., Inc., Thornton, R. I.		
<b>Totokett Mfg. Co.</b>	Sus.	July 20, 1918
Calvin H. Frisbie, Pres., Norwich, Conn.		
<b>Tourtellot, Carl T.</b>	Ac.	Oct. 29, 1918
Agt. Renfrew Mfg. Co., Adams, Mass.		
<b>Towne, George W.</b>	Ac.	Oct. 26, 1892
62 Salem St., North Andover, Mass.		
<b>Troy Cotton &amp; Woolen Manufactory</b>	Sus.	Sept. 10, 1918
J. Edward Newton, Treas., Fall River, Mass.		
<b>Tucker, Philip M.</b>	Ac.	Apr. 25, 1912
Pres. Philip M. Tucker Co., 201 Devonshire St., Boston, Mass.		
<b>Tuley, Philip S.</b>	Ac.	Oct. 18, 1900
Pres. Louisville Cotton Mills Co., 1318 McHenry St., Louisville, Ky.		
<b>Tunstall, Harry</b>	Ac.	Sept. 21, 1905
12 Maple Ave., Fairhaven, Mass.		
<b>Turner, Chas. A.</b>	Ac.	Mar. 7, 1924
Pres. Chester Lacc Mills, Chester, Pa.		
<b>Twiss, William D.</b>	Ac.	Apr. 29, 1896
Agt. Everett Mills, Lawrence, Mass.		
<b>Underdown, Walter H.</b>	Ac.	Sept. 23, 1909
Treas. New Bedford Cotton Mills Corp., New Bedford, Mass.		
<b>Underwood, Chas. S.</b>	Ac.	Jan. 11, 1924
Hunter Mfg. & Comm. Co., 58 Worth St., New York City.		
<b>United Piece Dye Wks.</b>	Sus.	Feb. 12, 1918
Albert Blum, Treas., Lodi, N. J.		
<b>Vaughan, Wanton</b>	Ac.	Feb. 5, 1926
Bragdon, Lord & Nagle Co., Mill Property Dept., 334 Fourth Ave., New York City.		
<b>Vermilye, Wm. M.</b>	Ac.	Oct. 5, 1923
930 Madison Ave., Plainfield, N. J.		
<b>Vickery, Robert G.</b>	Ac.	June 1, 1923
Cabot Mfg. Co., 77 Franklin St., Boston, Mass.		
<b>Viscose Co., The</b>	Sus.	Jan. 17, 1927
C. C. Bassett, Jr., 171 Madison Ave., New York City.		
<b>Wadleigh, Jude C.</b>	Ac.	Oct. 26, 1892
Agt. Merrimack Mfg. Co., Lowell, Mass.		
<b>Wagg, Frederic E.</b>	{ L.	Mar. 2, 1922
Agt. Hill Mfg. Co., 487 Main St., Lewiston, Me.		Mar. 2, 1922
<b>Walcott, Chas.</b>	S.R.	Dec. 16, 1918
Treas. Newmarket Mfg. Co., 87 Milk St., Boston, Mass.		
<b>Walen, E. Dean</b>	Ac.	May 3, 1921
Asst. Agt. Pacific Mills, Lawrence, Mass.		
<b>Walker, Edward P.</b>	As.	Apr. 29, 1915
E. P. Walker & Co., 60 Beaver St., New York City.		

		Elected
<b>Walker, Frank A.</b>	As.	Apr. 16, 1926
Leary & Walker, New Bedford, Mass.		
<b>Walker, Thomas H.</b>	Ac.	Apr. 24, 1923
Asst. Treas. Lorraine Mfg. Co., Pawtucket, R. I.		
<b>Wallace, Robert S.</b>	Ac.	Apr. 25, 1912
Treas. Fitchburg Yarn Co., Fitchburg, Mass.		
<b>Walmsley, Herbert</b>	Ac.	Sept. 30, 1908
Sec.-Treas. New England Yarn Spinners Assn., 731 Grosvenor Bldg., Providence, R. I.		
<b>Walsh, Frederick T.</b>	Ac.	Apr. 28, 1897
12 Valentine St., West Newton, Mass.		
<b>Walsh, James J.</b>	As.	June 1, 1923
S. D. Bush & Co., 153 Milk St., Boston, Mass.		
<b>Wampanoag Mills</b>	Sus.	Dec. 7, 1917
Albion C. Cook, Treas., Fall River, Mass.		
<b>Wamsutta Mills</b>	Sus.	Sept. 10, 1917
C. F. Broughton, Treas., New Bedford, Mass.		
<b>Ward, Benjamin I.</b>	Ac.	Sept. 30, 1908
Pres. Bellman Brook Bleachery Co., Fairview, N. J.		
<b>Warren, Edward A.</b>	As.	Oct. 30, 1917
Hotel Kempton, 237 Berkeley St., Boston, Mass.		
<b>Warren Mfg. Co.</b>	Sus.	July 20, 1918
Wm. S. Pepperell, Treas., Warren, R. I.		
<b>Warwick Mills</b>	Sus.	Jan. 29, 1919
Charles O. Richardson, Pres., 201 Devonshire St., Boston, Mass.		
<b>Washburn, Frederick C.</b>	As.	Dec. 6, 1926
Washburn, 226 North Water St., New Bedford, Mass.		
<b>Waterman, Frank E.</b>	Ac.	Jan. 30, 1925
Asst. Treas. Butler Mill, New Bedford, Mass.		
<b>Watson, Clifton E.</b>	As.	Feb. 2, 1923
Mgr. The J. H. Williams Co., Millbury, Mass.		
<b>Wattles, Fred E.</b>	Ac.	Oct. 5, 1899
Asst. Supt. New Hampshire Spinning Mills, Penacook, N. H.		
<b>Watts, Ridley</b>	Ac.	Apr. 25, 1907
Ridley Watts & Co., 44 Leonard St., New York City.		
<b>Watts, Ridley &amp; Co.</b>	Sus.	Nov. 1, 1918
Ridley Watts, 44 Leonard St., New York City.		
<b>Wauregan Co., The</b>	Sus.	Apr. 1, 1918
W. Irving Bullard, Wauregan, Conn.		
<b>Waypoyset Mfg. Co.</b>	Sus.	Jan. 28, 1919
E. B. G. Piggott, Asst. Treas., Central Falls, R. I.		
<b>Webster, Joseph W.</b>	Ac.	Apr. 28, 1910
Treas. Grinnell Mfg. Corp., New Bedford, Mass.		
<b>Webster, Robert C.</b>	Ac.	June 20, 1927
Vice Pres. W. & J. Knox Net & Twine Co., Johnson and Barney Sts., Baltimore, Md.		
<b>Weld, J. Linzee</b>	Ac.	Apr. 6, 1928
Asst. Treas. Suncook Mills, 70 State St., Boston, Mass.		

<b>Wellington, Sears &amp; Co.</b>		Elected
Harry L. Bailey, 93 Franklin St., Boston, Mass.	Sus.	Nov. 13, 1924
<b>Wentworth, Philip C.</b>		As.
Treas., National Ring Traveler Co., 257 West Exchange St., Providence, R. I.		May 3, 1921
<b>West, Alexander S.</b>		
U. S. Gutta Percha Paint Co., 12 Dudley St., Providence, R. I.	{ L.	Apr. 17, 1908 Apr. 17, 1915
<b>West, William R.</b>		Ac.
1886 Purchase St., New Bedford, Mass.		Sept. 22, 1896
<b>Whidden, William B.</b>		As.
Sales Repres. Celanese Corp. of America, 15 E. 26th St., New York City.		Nov. 23, 1925
<b>Whipple, Walter</b>		Ac.
Agt. Nashua Mfg. Co., Nashua, N. H.		Sept. 13, 1906
<b>Whitaker, James D.</b>		Ac.
Agt. Lola Cotton Mills, 683 Atlantic Ave., Boston, Mass.		May 1, 1924
<b>Whitaker, James L.</b>		Ac.
William Whitaker & Sons, Olney, Philadelphia, Pa.		Sept. 21, 1905
<b>Whitaker, Wharton</b>		{ L.
V. P. & Gen. Mgr. William H. Haskell Mfg. Co., Pawtucket, R. I.		Mar. 15, 1919 Mar. 9, 1920
<b>White, John S.</b>		S.R.
Morse Chain Co., 141 Milk St., Boston, Mass.		Nov. 1, 1920
<b>White, Nelson D.</b>		Ac.
Gen. Mgr. N. D. White & Sons, Winchendon, Mass.		Sept. 11, 1912
<b>Whitehead, H. R.</b>		Ac.
Agt. Pepperell Mfg. Co., Biddeford, Me.		July 10, 1925
<b>Whitehead, James H.</b>		S.R.
Treas. Boston Mfg. Co., 48 Franklin St., Boston, Mass.		May 31, 1917
<b>Whitin, Henry T.</b>		Ac.
Pres. Paul Whitin Mfg. Co., Northbridge, Mass.		Apr. 25, 1877
<b>Whitin Machine Wks.</b>		Sus.
E. Kent Swift, Treas., Whitinsville, Mass.		Nov. 1, 1918
<b>Whitin, Paul</b>		Ac.
Treas. Paul Whitin Mfg. Co., Northbridge, Mass.		Oct. 1, 1903
<b>Whitin, Paul, Mfg. Co.</b>		Sus.
Henry T. Whitin, Pres., Northbridge, Mass.		Jan. 22, 1918
<b>Whitin, Richard C.</b>		Ac.
Asst. Treas. Paul Whitin Mfg. Co., Northbridge, Mass.		Jan. 11, 1926
<b>Whiting, George H.</b>		As.
B. H. Dickson & Co., 141 Milk St., Boston, Mass.		June 14, 1926
<b>Whitman, Clarence, &amp; Son, Inc.</b>		Sus.
C. Morton Whitman, Vice Pres., 21 East 26th St., New York City.		Nov. 1, 1918
<b>Whitman, C. Morton</b>		S.R.
Vice Pres. Clarence Whitman & Son, Inc., 21 East 26th St., New York City.		Nov. 1, 1918
<b>Whitman, Harold C.</b>		Ac.
Treas. The Esmond Mills, 21 East 26th St., New York City.		Apr. 25, 1907
<b>Whitman, Hendricks H.</b>		Ac.
Pres. Monomac Spinning Co., 78 Chauncy St., Boston, Mass.		Apr. 29, 1915

		Elected
<b>Whitman, Malcolm D.</b>	As.	Apr. 25, 1912
William Whitman Co., Inc., 25 Madison Ave., New York City.		
<b>Whitman Mills</b>	Sus.	Feb. 8, 1918
Albert G. Mason, Treas., New Bedford, Mass.		
<b>Whitman, William</b>	Ae.	Apr. 25, 1901
Nonquitt Spinning Co., P. O. Box 100, Essex Station, Boston, Mass.		
<b>Whittaker, John G.</b>	Ae.	Apr. 17, 1908
Mgr. Lincoln Bleachery & Dye Works, Lonsdale, R. I.		
<b>Whittenton Mfg. Co.</b>	Sus.	Jan. 30, 1925
John S. Farlow, Asst. Treas., 50 State St., Boston, Mass.		
<b>Whittier, W. R. B.</b>	Ae.	Oct. 18, 1900
Treas. Whittier Mills, Chattahoochee, Ga.		
<b>Wiggin, Frederic S.</b>	Ae.	Oct. 29, 1918
20 Dunnell St., Pawtucket, R. I.		
<b>Wilkinson, William T.</b>	Ae.	Apr. 16, 1926
Gen. Supt. Warwick Mills, W. Warwick, R. I.		
<b>Williams, Walter S.</b>	Ae.	Apr. 30, 1909
Mount Hope Finishing Co., North Dighton, Mass.		
<b>Wilson, James A.</b>	As.	June 5, 1925
Pres. & Treas. J. A. Gowdey Reed & Harness Co., P. O. Box 397, Providence, R. I.		
<b>Winchester, William E.</b>	Ae.	Apr. 24, 1902
Vice Pres. Deering, Milliken & Co., Inc., 79 Leonard St., New York City.		
<b>Windle, J. H.</b>	As.	Oct. 5, 1920
Selling Agt. Fales & Jenks Machine Co., Pawtucket, R. I.		
<b>Winsor, Robert</b>	Ae.	Apr. 28, 1910
Kidder, Peabody & Co., 115 Devonshire St., Boston, Mass.		
<b>Winsper, Samuel F.</b>	Ae.	May 3, 1918
Supt. City Manufacturing Corp., New Bedford, Mass.		
<b>Winterbottom, John W.</b>	Ae.	Nov. 23, 1925
Supt. Nashua Mfg. Co., Nashua, N. H.		
<b>Witherbee, Rex G.</b>	Ae.	Apr. 26, 1906
Utica Steam & Mohawk Valley Cotton Mills, 801 State St., Utica, N. Y.		
<b>Wixon, Walter James</b>	As.	Nov. 10, 1922
Treas. Sterling Ring Traveler Co., 101 Lindsey St., Fall River, Mass.		
<b>Wolff, Charles, 3rd</b>	Ae.	June 14, 1926
Gen. Supt. Canadian-Connecticut Cotton Mills, Ltd., Sherbrooke, P. Q., Canada.		
<b>Wonalcant Co.</b>	Sus.	Mar. 15, 1918
James R. Everett, Vice Pres. & Gen. Mgr., 125 Summer St., Boston, Mass.		
<b>Woodman, Cyrus</b>	Ae.	Apr. 6, 1922
Newmarket Mfg. Co., Newmarket, N. H.		
<b>Woolley, Frank F.</b>	Ae.	Apr. 27, 1905
Agt. Coventry Co., Anthony, R. I.		
<b>Worsnop, William</b>	Ae.	Nov. 1, 1923
Agt. Cabot Mfg. Co., Brunswick, Me.		
<b>Wylde, Harry</b>	Ae.	Apr. 13, 1911
979 Essex St., Lawrence, Mass.		

	Elected	
<b>York Manufacturing Co.</b>	Sus.	Aug. 1, 1923
Frederic C. McDuffie, Treas., 141 Milk St., Boston, Mass.		
<b>Young, Alan V.</b>	Ac.	Sept. 11, 1915
Mgr. Hamilton Cotton Co., Hamilton, Ontario, Canada.		
<b>Young, A. McLean</b>	S.R.	Apr. 24, 1918
Treas. Queen City Cotton Co., Burlington, Vt.		
<b>Young, Charles William</b>	Ac.	Oct. 5, 1923
Supt. Goodyear Cotton Mills, Inc., Goodyear, Conn.		
<b>Zuill, Robert W.</b>	S.R.	July 20, 1918
Treas. Cornell Mills, Fall River, Mass.		
<b>Zylstra, William C.</b>	Ac.	June 14, 1926
Supt. Booth Mfg. Co., New Bedford, Mass.		

## RECAPITULATION OF MEMBERSHIP

## BY CLASSES

Active members	628
Associate members	191
Sustaining members	157
Life members	35
Honorary members	4
Technical members	8
Junior Technical members	7
	<hr/> 1,030

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